

Mission Institute 2 June 1840

Dear Sir, If you have received my previous letters you are aware of my strong desires to obtain the numbers of the Flora. You may recollect that I once wrote requesting you to send them out by some conveyance, & I would remit by the first conveyance. Not receiving any answer I requested Dr. Nelson to leave \$10 with you. He left it & a letter for you with J. S. Taylor (Brick Ch. Chapel) I was sorry he could not bring back the books. At length I was forced to learn that a kind & accommodating friend would visit N.Y. & would bring back my long expected treasure. Only one objection occurred - he would not return till in May & for a part of the season I must use my hated Eaton. ~~I waited - saw Dr~~ I sent. While waiting his return, saw Dr Mead & in his numbers rejoiced over my own. My friend returned last Friday night & Saturday, full of impatience I repaired to his house - He had nothing for me! You may judge my disappointment. My first impulse was to write you at once but reflecting that a letter written under a feeling of disappointment is never an agreeable one I have waited till now. I know you too well to attribute your silence to indifference or neglect. Probably my last letters reached your house while you were absent - or - but I try in vain to guess the reason. It may seem to you that I am unreasonably anxious - perhaps so, but probably not more so than you would be in my case. I would gladly take a journey of 40 miles to obtain the Flora. I see absolutely nothing of a scientific nature except at Dr Mead's. I live 40 miles from him & we see each other rarely. I have been busy making arrangements for a trip, ^{tomorrow} 15 or 20 miles down the river for plants & must I fear delay the rest of this till my return.

3 June. The weather is not very favorable & I defer my excursion to another week taking in lieu of it a ~~excursion~~ ^{trip} to a point ^{on the river} about 10 miles from here. I think I have now ~~bro~~ ^{brought} my port-flora ^{to perfection} for collecting plants. I have just

just completed a contrivance for strapping it to my shoulders which is so small that I can put it all into my vest pocket. This morning two letters were laid on my table; one was from Dr Mead. It informed me of Dr Grays translation from the quasi professorship of Michigan to that of Harvard, & also of your removal to Princeton. This will I presume prevent a serious delay in this. This is essential as I expect an appointment from government to an Indian School about 30m. W. of Prairie du Chien before I can get an answer from you. I wish to take measures to get a box from N.Y. before I leave civilization & in it I wish to get if possible 1/2 a ream of herbarium paper. I do not feel safe to send ~~off~~ for things till I have made sure of going. I suppose I must be there early in Sept. I have thus far made much less progress ^{in botany} than I expected. My duties occupy but 8 hours of my time but it exhausts all my energies. Hence I make apparently no progress except merely the mechanical part of collecting.

6 June. I will now try to get off my letter. My excursion was a circuit of about 20 miles & very successful. I found a grand locality of *Nelumbium*, ^{not in flower yet} I think, *pentapetalum*. Found *Olema visorina*, *Diospyrus*, *Amorpha fruticosa*, *Gratiola missouriensis*, *Gymnocladus*, *Ruellia ciliosa*, *Eoungmus atropurpureus*, &c. &c. I saw a letter from Dr Gray to Dr Mead, in which he said he sent to Europe all the plants he could spare. Considering your interests united I resolved to make out a hundred or two of plants for you. Dr Mead will be sending some & I will send them at the same time. If you wish some *Nelumbium* I wish you would tell me how to put them up. They will be in flower I hope when I get your answer. I entreat you to write with as little delay as possible as I fear I shall be waiting for your answer. I wish you to answer these questions. Did you get the S/O? Can you spare me herbarium paper of the same size as yours? At what price? Can I get both that & the Flora by writing to N.Y.? How? I think I shall have a box sent from Wilde & Merriam's, Looking glass Merchants 134 Chatham St. ~~At~~ I hope my residence among the Indians will not be without results of some value.

I expect an opportunity to go out west during next summer with a body of troops towards the Rocky Mts. I cannot, think of any thing which ^{might} ~~shall~~ deprive me of the use of the Flora all next year.

Did I suggest to you a correction of *Anemone Pennsylvanica*? I have seen great quantities of it this year. I find the specimens all similar. Every one has a 3 leaved involucre within it always 3 1-flowered peduncles one has no involucre & blossoms much earlier than the other two which have each a 2 leaved involucre.

Shall I send you the fruit of *Porcellia triloba*? Shall I slice it & dry it or dry it whole or make a pickle of it or embalm it in sugar? Dr Mead cannot easily get it for you. I shall leave I expect before it is quite ripe. Did you receive a geranium from me last year? Was it *G. Maculata*?

I have now written all that I think will interest you about botany. I shall save your time & my own by passing by my personal affairs in silence. It would be a great gratification if I could have every white spot in your answer filled out by Mrs. I. & the children. I have now sent you 6 or 8 sheets some quite full & have never received a line.

Can you tell me the name of the red eyed locust which abounds so this year. I have saved a hundred or two. If you can use them as specimens I will forward them.

Yours Respectfully
J. F. Holton.

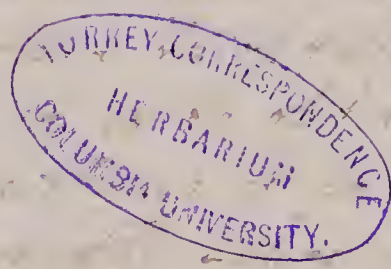
Direct "Mission Institute
Quincy Ill."

Prof. John Torrey M.D.

Princeton,
N. Jersey

Rec^d. Dec. 18th

I will write where you would like a package for me, I
 will get it for you. I will get it for you. I will get it for you.

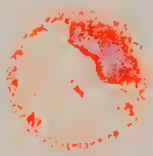


TURNER CORRESPONDENCE
HERBARIUM
COLUMBIA UNIVERSITY.

Dear Mrs J. I have not had time to write as
to the rights of making my lines on the other side as usual
I will be writing to you on the other side of the
page.

Prot. John Torrey M.D.
30 McDougall St
New York.

J. & J. May left the City of Chilton
25th & 26th can you find out
please & forward



MS. A. 9. 2. 1541

Hillsgrove 30 March 1841

Dear Sir

Having been disappointed in an answer to my communication of last November I take a more certain mode of reaching you tho' it is still somewhat doubtful whether you ever see this. I hoped to obtain 3 or 4 more Nos of the Flora (I have 1 & 2) with the spring goods from N.Y. I am sorry now that I did not succeed, as I do not know what there will be so good a chance to remit this fall as that which now occurs. The person who calls with this can tell whether it will do to try to send them now this year. If you are willing to send them & he can get them to me I would like to ^{have} you send Part 3 & those later. If a part is in the press & $\frac{3}{4}$ printed I should like the sheets - ^{saving} ~~sending~~ the rest by ^{for another opportunity} ~~mail~~ - ~~sheet 2 or 3 sheets at a time~~ I know that the risk will be great but I want them (Those I have had reason to think differently since - 17. Nov) I have are of little use till at least I have all the polypet. exag.)

Have you got a supply of paper for your herbarium yet? Could you spare $\frac{1}{2}$ a ream? At what price? ^{including glue or singlass.} I ^{expect} ~~may have~~ some boxes sent me from Wilde & Merriam's 134 Chatham St. I ought to put up 500 plants this winter & if I am prospered this summer, all will be confusion unless I do. I would be glad if you would forward to me the last proof sheet of each part when you are through with it that I might know how you progress. Do you know yet when you will finish the Phanogama? I have ascertained from the Methodist papers that you are still in N.Y. - but have heard nothing else of you & nothing of Dr Gray. Was my Beck's Botany left ~~at~~ your house? Is so I should like it at the same time with the Flora. If not it is lost. I hope you will write me soon. I think Mrs B & the children - young ladies I suppose I must say, now two more years have been added to their stature, - will be willing to aid in filling it. I do not like to trouble ^{over} you with more but if you wish to know more I refer you to the accompanying letter written to Mrs J. but directed to you I.F.H.

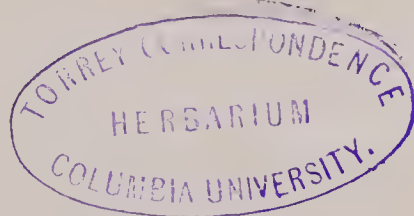
Direct Hillsgrove Mc Donough Co Ill.

post. Master

Did you receive a communication from Dr Mead, Augusta Hancock Co Ill.? Dr Beck received some assistance from him & I think he might be of some service to you. He has no late works - is confident he has some plants not described in any work he has. If I had time I would go & see him before sending to you - he has never seen your Flora - nor Beck nor a late edition of Eaton. I believe he assisted Eaton some. I will convey him a part of your Flora. I know of no other person in this region who has even a smattering of Botany - Dr Mead says he finds many sea side plants on the salt licks here. I think he said he would be happy to aid you if in his power.

17 May My letters have been returned upon me but another opportunity occurs & I now send them. I must content myself with Eaton this season but I hope to receive a package from N.Y. early in the fall. I feel the need of your flora more & more. I can scarcely be said to study this summer. I take an hour or half a day from my work analyze a few plants press them & pack them in a box for future leisure. I can do no more for I am constantly from home. Mr Merriam will I suppose answer a letter sent with this the day he gets it. I shall wait a week after receiving his reply, for yours before answering his cannot ~~his~~ your family make me out a letter in a week?

Yours truly J. J. Halton -





Prof. John Torrey M.D

My dear Sir,

Miss Just Quincy 15 Nov 1841

Having an opportunity to send by the Venerable Dr Nelson, I take the liberty of addressing you a hasty line. Dr Mead has left with me a package of plants for you - I am sorry the Dr cannot conveniently take them. I hope to send them soon. I intend to send with this the seeds of *Annona triloba*. You wrote for the fruit, Dr M was unable to procure either that or seed. I wrote to a friend who took the trouble to procure seed. Had I known it I could have obtained the fruit by going a dozen miles for it as soon as I came here but all told me it was too late. If seeds will not answer your purpose I will take measures to have the fruit ^{next year} but I must make "preserves" of it or take some course to prevent its speedy decay. A lady has just sent me ² receptacles of a *Nelumbium* I suppose. I have tried hard to get the flower. Expect (D.V.) to succeed next year. Should you wish it I will try to send you some - w'd send a receptacle but think probable you have it. Dr Mead will spare no pains to serve you. Any thing which I can do will be done cheerfully. He tells me he intends to get the Flora as soon as he can remit east - no easy matter here. I shall expect Dr N. to leave \$5. or 10 with you, but do not wish to have the flora sent by him. I must have it at all events

however by next spring. I have had the offer of a horse & my expenses borne in a trip over the Rocky Mountains next year but felt obliged to decline on account of my ignorance of plants this side. I have the same offer for two years hence but think it too far ahead. Think I shall have an opportunity of visiting the sources of the Missouri a year from next summer. The summer past I have had poor opportunities for study. I have not touched the grasses & scarcely the compositae.

My health is not so much improved as I had hoped. I have gone to teaching again because I began to fear I never should accomplish any thing for the Savior if I did not. I had rather teach here one year and die than to live to the age of Methuselah such a life as I have been leading. I do not mean to throw myself away however though in the present emergency I work rather hard. I hear 5 recitations daily of 1 hour riding 8 & 12 miles each day Saturday excepted.

The same necessity which makes me work so hard makes me work for nothing; i.e. in addition to my board & some clothing some \$20 or 25 for 6 months. This was all I asked. They promised more if in their power but it is doubtful whether I get even this. This arises from the poverty of the Institute. If Christians at the East understood the nature of operations here they would not let be so a month.

There is not a teacher here so radical as the average

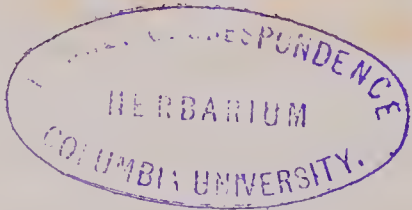
of the domestic missionaries around us, & but few of the students. I wish the churches in N.Y. would engage some judicious person coming west to spend a week here, ~~to~~ to become acquainted with each teacher & examine each pupil, enquire into receipts & expenditures & also into the privations both of teachers & students & make a report. Jo Smith, ^{the Mormon prophet} recently bought a piece of land adjoining us - in a direct line between the two Institutes, 160 or 200 acres for \$3,000. It was ^{so} obviously impossible to raise money to secure it that no attempt was made. It might I suppose now be purchased for that sum.

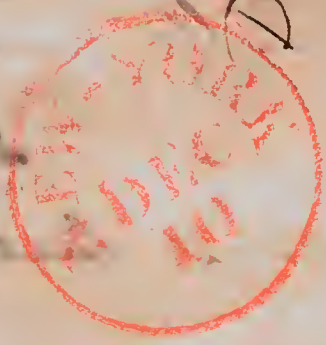
Want of time compels me to close. I have been somewhat disappointed in not hearing from you directly - ~~have~~ heard from you through Dr Mead. Give my respects to Mrs ~~J~~ & the family.

Respectfully yours

J. F. Holton.

I hope you received the letters I sent last June to yourself & family.



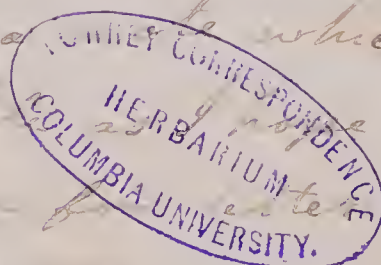


Dr. John Torrey
Corner of Prince &
McDougal Sts N.Y.

To introduce
Rev Dr Nelson

Dear Sir

Missou Jan. 19 1884



As I find an opportunity of sending to V. Gray, getting books from them I address you a letter which must of necessity be hastily written, but legitimate. My engagements here give me but little leisure for writing. I received a line from Dr. Mead a ~~sho~~ two days since, in which I hear from you. From an anticipation in his letter I am expecting one from you soon. He writes me that he has completed an extensive arrangement for exchanges for which he is eminently qualified being extensively acquainted with species. I hope your Flora which he intends to accompany this spring will read him a fuller acquaintance with the Natural System. He is a fine Christian & a close reader of the Greek Testament - much above so than any minister I know. I learn from Dr. Nelson that he left my last letter for you with the *Trilobis* seeds & also \$10 with a friend who will send them to you. I wish we had dropped the whole into the P.O. but you doubtless received them. I am happy that I have the prospect of obtaining the F. so early in the spring. If I left my Beech's Botany at your house I should be glad to get it by the same conveyance. I have not succeeded in seeing from Dr. Gray either directly or indirectly since the dog is returned from Europe. His Botany reached a second edition? I have just found where I can borrow a copy & mean to read it again this year.

Have you Herbarium Paper? How much will a 1/2 ream cost? I cannot get any get while,

The Professors & students desire me to deliver a course of lectures this summer on botany. I shall not be able to make out a course, but will attempt to put together parts of Gray's Botany, Lindley, & whatever else I can run on. In arrangement I wish to use is that of the Flora & I am desirous to know how far, in the unpublished part, it will deviate from Lindley. I do not suppose I must use Lindley where I have not the Flora. In the Cryptogamia will the Flora correspond nearest with Lindley, Bridel, or Burnett? If I could have access to Burnett it would save me great labor in collecting facts. Could you spare it for the whole season, or the man who brings out the flora would bring it, I would be glad to borrow it & would send it back by our merchants in the fall.

I do not by any means consider my situation here permanent. When I came I expected to stay 6 months & to receive my board, a suit of clothes complete, & \$2 in addition to the 10 left with you together with some other matters worth perhaps \$5 more. For board I take my chance in the family of a student & it prob. costs 50 cts - Good board in Qumby costs \$2. You may judge from this how we live. If the \$12 & the \$5 I have received as yet \$17. I now find I must remain some 10 months in all. I have proposed to the 300 Prof. bylery to support me here. In case they do not - as is most probable I shall leave here as soon as I can

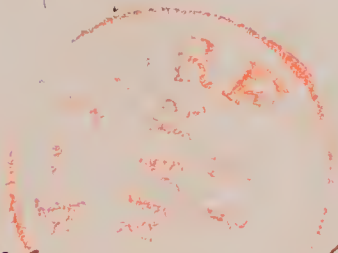
be spared. Should you know of an opening where I could be useful I would be very glad to have you take such steps in relation to it as circumstances may dictate.

As to my health it is decidedly improved. I teach about 5 hours a day - ~~Practical and theoretical~~ Greek, Conic Sections, Chemistry &c & of necessity spend much time besides in study, but I have to be cautious. I rarely preach.

I shall now close though I ~~hope~~ to have time to add a few lines either on the ~~history~~ ^{herbarium} or another which will not need any notice from you, unless you choose to read them by way of amusement. I send you with ^{this} more Popaw seeds as I am uncertain whether you received the others. I meant to have sent the remainder by the same conveyance by which I forwarded Dr. Heads package but I left it with a man in Quincy & it went before I knew it. The circumstances in which I am placed ~~are~~ are the only apology I can offer for troubling you as I do. I would not otherwise do it as I have little hopes of repaying all your past kindness.

Mr Lucius Kingman who carries this will not be able to call on ^{within 10 days} - he may stay 20 days. you. If the package is left ^{at the} Astor House Care of John Fillson & Lucius Kingman, he will take it

John Torrey. D.
or Mrs. Torrey



Mr. Kingman can be
seen at the Astor House

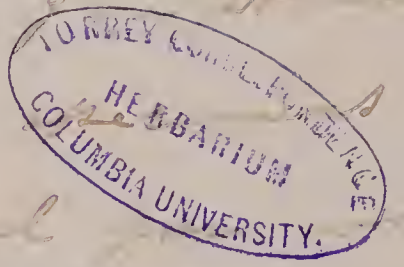
Academy of Natural Sciences

Nov 1842

Dr. Torrey

Dear Sir

Before I send you the seeds



that I should send you some
the names of which were doubtful
I send you about 50 seeds
not very fragments large enough
not good specimens which may be of some
use. I do not know where a letter would
reach me. I am on the eve of starting south.
Probably you will see from me before this reaches
you or some other from my new home.

I hope there to obtain the names as I have sent
off other specimens of the same containing your
names.

Accompanying these specimens
will be from 50 to 75 more which I hope you will
accept as a slight testimonial of my obligations
to you for repeated & continued kindness.

I took the idea of sending you a letter from a letter
of Dr. Gray's & I am inclined to think that it would
not be important whether there should be any dis-
cussion or not. I am probably going to be in

Yours truly



My Dear Friend

7 N. 3 W. - 4 Principal Meridian

28 July 1843

A rainy day a log cabin a mussed sheet of foolscap
an old pen & an inkstand in a state of almost utter exhaustion are the facilities
I have for answering your letter. I received it a week since. Had it not been a paid
letter I should have had it in April - I have purposely delayed answering it till I
had seen Dr Mead. I was surprised at its length. It was more than I had dared ask
from your pen in answer to all your my letters to you. I had drafted a few lines
from you & a letter moderately filled by Mrs. I. & the dear children (I beg the young
ladies' pardon - I suppose now they feel above being dear children). I had entirely des-
paired of a letter from you & but for the inscription on the second of the Pl.
"from his friend J. Torrey" I should have concluded that I never had been entered on your
list of friends. As it was I was planning a few weeks ago to present myself
at your study door ere this to demand the grounds of my proscription. I wrote
to Dr Gray some time since sending a miniature specimen or two & offering
him & you whatever I could do for you in the swamps of the Homochitto
I dared not do it to you. I did not expect an answer unless something
were wanting, but if he wrote he wrote too late

A chapter of autobiography has its place here. My year at the Institute
expired in October 1842. It was a pleasant year & a profitable one though
a very debilitating one to the purse. Stuffing my pockets ~~for the~~ with
testimonials, for the first time in my life I proceed to Natchez. Here
I found prospects so poor that I was glad to engage to teach 9 children
at the rate of \$400 & board. Severer service I never entered - My sphere
of usefulness was limited to my school. The accursed schism in the Pres. Ch.
cut me off from preaching to the blacks & I fear but little good ever
arose from preaching to slaves. My school tho' easily governed was
the hardest to be taught I ever knew. My labors knew not the remission
of vacations nor the regular period of school hours. My health was
unequal to the unusual task. I started for N. York ^{to go by sea from N.O.} but arriving
at Natchez the prospect of Quarantine, a letter I received from Illinois,
& other considerations led my steps this way -

Meanwhile in natural History particularly Chemistry & Botany I have
not been idle. Great indeed have been my regrets that I did not get
the flora by Kingman. Even the two parts I had were of increasing value
to me. Having now heard from you I shall I hope soon obtain them.

I brought some spare specimens from the south & I have now oppor-
tunity to collect more than I can use but I do not know how to aid
you. Many plants have entirely escaped my notice - many others
including all grasses I do not know. The few cryptogamia that

grow here are all unknown to me. This results from partially exploring N England N Jersey N.Y. Mississippi & Illinois without being confined to either region so long as to have examined ^{any but} ~~its~~ interesting & easy plants. But I am promising when I get the flora ~~to~~ that I will be more thorough with Compositae & other large families & large genera. *Silphium laciniatum* is abundant here. The plane of the leaf often varies many degrees from that of the meridian but its tendency to coincidence with it can not be doubted. I waited to collect some seeds from this curious fern before to send to the Patent Office at the same time that I corrected the error which they put in circulation there. In my haste I then omitted it entirely. We have one or two other *Silphiums* but I do not know much about them nor whether they have polarity. The leaves of *S. laciniatum* both radical & cauline (not "young tufts" only) certainly have. In a prairie the plant appears much more abundant E & W of you than N. or S. Its polarity is of little use. It does not grow in forests. In the prairie more distant objects guide the traveler in the absence of heavenly bodies.

Since being out here I have preached but little. I would feel it a great privilege to live by the gospel. that I might make every thing else subordinate to it but I never yet have received a dollar for preaching nor do I expect to while I am at the west. Consequently all I do in preparing for the desk I feel to be a sort of voluntary contribution to the cause of Christ. I made some attempts to obtain the charge of 4 congregations of slaves but after as I said my ~~new~~ heterodoxy could not be tolerated. One clergyman who treated me very kindly in other respects preferred to have his negroes sleep under a printed sermon prepared by Dr Payson for a refined congregation in Portland rather than have a man talk to them who did not believe them liable to damnation for Adam's sin. I have no small doubts of the utility of preaching to negroes without first emancipating them, but if it could do good no employment on earth would have suited me better.

I fear I never shall make a preacher. True my brethren here & their flocks have been pleased to compliment some of my performances very highly but in ~~fact~~ fact I am not naturally eloquent & I do not often feel that I have done my subject justice. There is no demand for ministers in Illinois unless they bring the means of support with them. Even then were our country intersected with canals like Holland I would recom-

mend them to buy a boat to live in. There is but one settled bishop in this presbytery -

I am now past 30. A few years weeks ago I determined to adopt plans which would secure me a home should other means fail. I think of buying 128 acres wild land at Hills Grove. If no opening occur within 3 years for me either as Pastor or Professor (I am out of the way of either at present) I intend to make a farm of it & try to get a wife. In that case I should be a dilettante preacher & naturalist & a bona fide farmer. This would be a field of much real usefulness but much more narrow than I am yet willing to accept but I am determined to have a family & not rove all my life. Were you in N. York still I would try to make arrangements to find employment in the city & teach & live in your family hoping that the tuition of yourself & Mrs I would fit me for something better than a farmer. After a month or two of manual labor which I need after my confinement at the South I intend to go to teaching again & a situation in Platte Co Mo. has been proposed to me. I could probably save about \$200 of my salary. I do not think I shall take it.

I now turn to your letter. My interest in the Med. School is undiminished & I have often enquired after it & its rival. I think you have been very kind to Dr Grant. I hope his son's affection will repay you. If however he is the lad who was once bit in Illinois I think some grace will be necessary to render him a "wise son".

I sent for the Flora this week - & for a half ream of Herbarium paper if you can spare it. As you have placed the \$10 to my credit with W & P. you will please have them charge the Paper to me & credit the same to you. I am sorry I forgot to send at the same time for Dr Gray's new work. You dissuaded me from buying his previous work till the 2nd edition. I hope you will find a few copies of your report to dispose of. Your plants from Mesopotamia remind me of mine from Beyroot. They bear an inscription from "Prof. Moore to Jos Constable Esq. to Dr Asa Gray to W. J. Sullivan to Dr S B Mead to Rev J. F. Holton"!! And all this way they have traveled without labels! If I cannot get you to name them otherwise I shall add "to Dr Torrey" & send it along. Dr Mead wrote in March - He was a blazing Millerite! Passover passed as you are aware without the ~~three~~ crash of worlds & so did 23 Apr. These disappointments sobered him & one or two doses I gave him may have aided. but he still wants to see as many plants as possible before 23 Sept. Dr M. is a splendid species

hunter - nothing can escape him. His diligence on the eve of the world's destruction shows the ruling passion strong - He has been astonishingly industrious for two years. You probably receive localities from him. He has no idea of Structural Botany ^{he knew nothing of the bot. Syst.} before I showed him Lindley. He now keeps his plants in piles each pile corresponding with a no of your Flora & arranged exactly with it. He is a man of very patient research & the best Greek Testament scholar I know. What do you say of Liebig's Animal Chemistry? I have read that & the Agricultural Ch. I think he has opened a wide field for you but does he not speculate too far.

What do you think of Kames? I have scarcely been able to examine



Where ought things to be left for you in N.Y.? I hope to send a few plants this week to the care of Chilton Broadway.

25-
Paid
Hillsgrove Ill
7th Aug 1874

John Torrey M.D.
Princeton
N.J.

it but think it better than Turner even.

Do not feel bound to answer my loquacity but in the briefest style. I am anticipating a speedy answer & hope it will reach here before I leave this region. I hope you will be obliged to call in Mrs P's aid to make out as full sheet as before. You have no idea how much pleasure it gave me. If Herbert Gray has lived through this past July without a return of the attack you will have the strongest hopes. I hope it has proved so. You did not mention Margaret. I hope she is ~~soon~~ well. I am sorry I have forgotten their Aunt Jane's name. Is she still at Madura? I am forming for my brother just now & I close the principal part of this this 4 August Yours Ever J.F. Holton -

P.S. Dr Mead has sent you some numbered specimens from me & some others I believe. Silphium perfoliatum I have just found - I will save some - I think you will get this before Mr Tinsley calls at W & P's.

Direct to Hillsgrove M'Donough Co Ill.

M^c Donough Co 8 Aug 1843

Dear Sir

I learned yesterday that I should have an opportunity to send you some plants. So I have gone to work to day, & got together a mass of stuff chiefly for the sake of authenticating specimens for my own herbarium & partly to give you a sort of synopsis of what is growing today in our vicinity all these growing within a circle of a mile in diameter & many more. I have gathered to day like an ox without looking to see what I was getting - perhaps you would say like an ass. I have not time to compare them with descriptions nor even to look out their names. I have but 3 days to dry them & therefore no time to lose on examining them. I would thank you to minute their names opposite to their numbers on this paper & throw it into your "unanswered portfolio" till you can copy it off in a letter to Dr Mead. ^{P.H.} August to Hancock Co Ill. He will know my address - (you will not know it at the time you see this) & having an interest also in these same specimens will transmit a copy of your verdict to me. I mark each specimen with I.H. They were all gathered today in a spot which you will find on a sectional map of Illinois as "Section 30 of Township 4 N 3 West of 4th principal meridian" mostly from low prairie land.

No1 Vernonia

2

3

4

The 3 ~~first~~ grew close together
No1 had been in flower some time
2 opening 3 not open. These grew
close together in time of drought
1 in ~~the~~ the dampest place - swamp in
wet weather, 2 & 3 on drier ground
4 just open - 30 rods from the other
2 1/2 feet

5 Subject of debate between me & Dr Mead

6 Branches - 2 feet.

7 - - - - - 5f

8 Asclepias 3 1/2 f

9 - 2 feet

10 4f

11 4f

12 7f

13 Euphrasia

14 Silphium perfoliatum

15 Gymnocladus canadensis leaf
used mixed with milk & honey to poison
flies - called coffee nut.

16

17 "Black root" used as cathartic

18 Monarda

19

20

21 Nigger head - earlier than the
prairie species which has longer
narrower more pendent rays

22 Helianthus 5f

23 4f

24 6f. A matter of 3 years doubt of
Dr M. & myself Glycyrrhiza

25 5f

26 Physalis

27 Lythrum

28 Liliaceae

smaller than

L. canadense - not compared with Eaton

I had hoped to get
more but have scarce
time to do these up
I have no paper suit-
able for wrapping

My last attempt to
get my flora proved
a failure - I will
try again this fall
if possible

I am sorry to close
this in such haste

If you have not written
me & intend doing
so - you may mail
a letter to Hillsgrove
& it will ultimately
reach me.

Dr Mead is well.
Respects to your
family

In great haste yours

J F Holton

P.S. I am sorry to find
I have omitted some

that I intended to send tho. now I believe
of the numbered specimens - I am in too
great haste to remedy the oversight.



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Dr John Torrey

to be left with a package
at Dr Chiltons Broadway
opposite City Hall -

Chiltons

Augusta 13 May 1844

Dear Sir

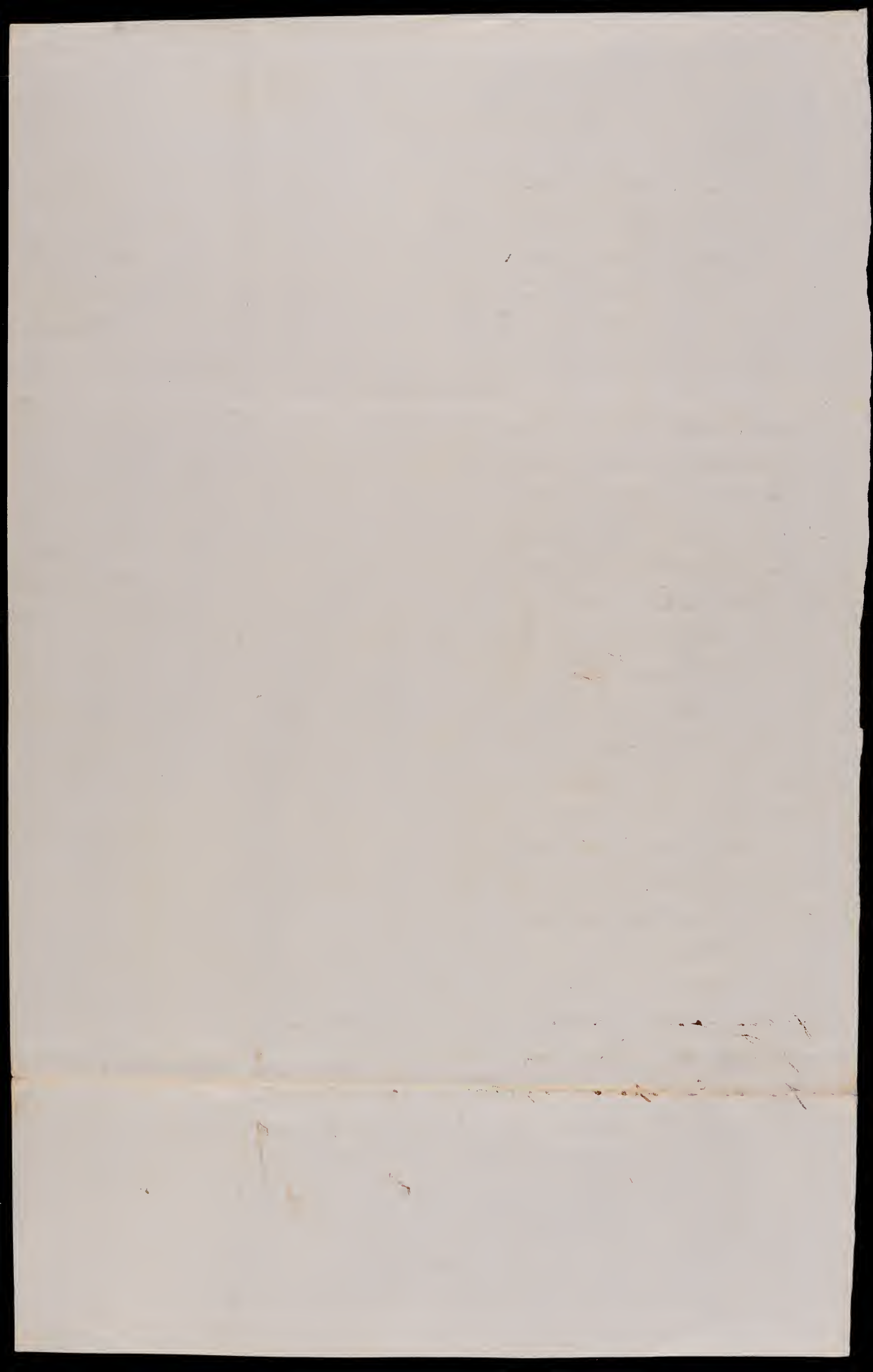
In conjunction with Dr Mead I will venture to tax your patience with another letter. Knowing the many calls on your time I do not wonder that my last letter failed of eliciting an answer. I suppose the State botany was pressing you by the time your lectures were through & perhaps it is useless to hope a line from you till after the Report & the No. of the Flora long due shall have issued from the press. Meanwhile (*Deo Volente*) I shall locate myself near Quincy & devote the summer to Theology Botany & Greek. I had thought of delivering a course of lectures in Quincy but have concluded it would make too serious a draft on my time.

Glad we text books out here I could easily get a class but with Comstock's Botany — bah!

I am expecting my Flora out here with some plants for Dr Mead from Barratt & others soon. I have pressed nothing this spring. Think I shall begin next week & pursue it more vigorously than ever before. I intend to use a portable press wh. I can carry in a buggy.

My future plans are still very vague. The west is no place for me as yet. I might remain here 10 years more & not get settled. I know of but one minister installed over a church. I find openings enough to preach gratuitously. The mass want a cheap ministry. I have bought 8 acres of prairie adjoining the Village of Hills Grove McDonough & Co & 40 acres of Timber. Should I obtain the means in future I intend to put buildings on it & rent it, unless something should induce me to retire to it. This fall or next spring I intend coming East when if we live I hope to see you. Will you please look at the plants I sent you in the Autumn of 1842 & 1843 if you received them & communicate their names either to Dr Mead or to me at Quincy.

Yours truly J F Holton.

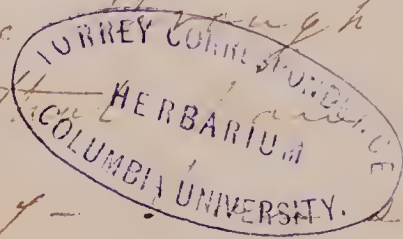


Dear kind friend

Theopolis 2 Sept 1844

Your letter came to hand this morning. I do not design sending off an answer to it at present but I prefer beginning an answer while my feelings are fresh. I feel very grateful for your attentions & sorry that I have failed of receiving any of your letters except the one ^{through} Dr Mead.

You express surprise that I am not in the regular work of preaching.



Sorry to inform you that the want of educated preachers is no way proportioned to the need for them.

There are in this Presbytery 16 Preachers. Not one receives a comfortable support. I think only one is paid by his people for preaching all the time & only about 8 are receiving any thing from any congregation for their services. My gratuitous services I may say without vanity are in good demand & not unacceptable even at Amey - the Mercer Street of the west. But nothing was ever offered me for preaching but once. This was \$2.50 for traveling 100 miles & preaching 2 Sabbath. This I declined receiving myself but gave it to the Institution in which I was laboring.

My plan now is to give the bluffs & bottoms a final scouring in the spring & bring the results to you - to seek employment in teaching botany in the city next summer & after that follow the leadings

of Providence in the Fall. This looks to me the course marked out for me by my Master at the present time.

Till recently more important studies have crowded out my botany. Even the scant time I have judged proper for it has often been necessarily devoted to Theology; but now the tables are turned. I am delivering two courses of lectures. & from morning till night almost every moment is devoted to botany. I now do not preach half the time half finished sermons are left to the mellowing influences of time & botany takes the place of theological study - the classics & often intrudes even on my meals. I never was harder pressed for time than now. the lateness of the season admits no delay.

I feel that I have done your Flora some service in awakening the energies of Dr. Mead. He had done absolutely nothing for some years & when I found him had not probably a dozen specimens in his house. I fear I have done him a great injury for now every man & every dollar he can command goes to enlarge his collection - his first specimens were wretched but now they are really beautiful - equal I fancy to Shorts. Something here is owing perhaps to my suggestions but much more to remonstrances of Dr. Engelmann - who once told him very kindly in his peculiar english that the Coriis he sent

him were "so good as so much nay"

I fancy I have now about the best press in the world. I can pick it up easily with 200 large specimens in it & 1600 thickness of paper & carry it to my carriage & keep the plants pressing all the way home.

The season has been unfavorable for collecting on the bottoms. I have not felt that I could spare much time for collecting - my collection has been more wholesale than I like. I hope to do better next spring.

I am sorry to hasten this off as I do but I find a chance to make another attempt to get my Flora & I think I will send this by the same man. I have asked him to apply to you in case he has difficulty in getting it. In case it is necessary I do think it is of importance enough to trouble even you. I feel assured you will not hesitate to do me that kindness.

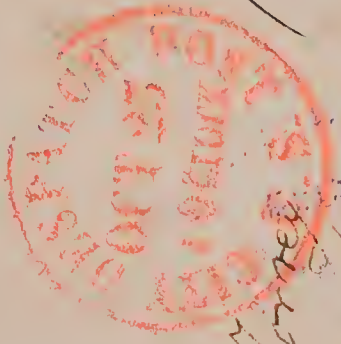
I am sorry I have not an opportunity to put up some plants for you.

It is very late & I must close. Remember me cordially to Mrs L. the "young ladies" & Dr Gray

Amey 5 Oct 1844

Yours I F Holton

P.S. The surest way to reach me will be as before through Dr Mead



Dr John Torrey
Prof. Chemistry
Coll. Phys. & Astron.
New York

Forwarded by



Missouri Institute 10 Feb 1848

Dear Friend

I take my pen to write what I hope may prove my last letter to you before I am permitted again to see you face to face - a privilege I have long & earnestly desired. It is necessary to trouble you a little in order that my springs labors may be of as much use to you as possible. One thing only requires immediate attention you know I have but two nos of the Flora. While you are reading this, Cooperthwaite Phil^d is looking up a box of books for Newton Flagg of Quincy. Now your Baswell can run down to W & P^d & get a line to Corey & Flort or whoever the Phil^d men may be that will cause them to immediately deposite in Mr Flagg's box at Cooperthwaite's the deficient nos. If two complete setts also are added I will either sell them here, or bring them on when I come I am quite sure of selling two setts would try to sell four. The remainder of this letter you may read at your leisure.

— — — — —

I will now state my plan of operations succinctly as possible. Last year I delivered two courses of lectures on Botany - one of 23 lectures at Theapolis another of 12 in a school in Quincy. This winter I am engaged in a course of lectures on Chemistry to adults some 4 or 5 being College graduates.

The course is 18 lectures of from $1\frac{1}{2}$ to two hours each. Some of these same persons insist on another course on Botany in the spring. This if it takes place will consist of from 15 to 20 lectures of 75 to 90 minutes each. In addition to all this I am teaching where I taught in 1842. My lectures have cost me incredible labor. My last great difficulty disappeared last week by coming to an arrangement of organic substances which if not perfectly satisfactory I am willing to adhere to.

The consequences of these labors are

- 1st & least. My Violin hangs unstrung these many weeks.
- 2nd My correspondence is given up
- 3rd My historical reading abandoned & general reading nearly so.
- 4 My relatives remain unvisited.
5. My Theological reading abandoned, Hebrew almost suspended and five sermons on which I had bestowed great labor all left unfinished on the stocks.
- 6 My health somewhat endangered by close application.
- Last & worst my spiritual health seriously impaired

Worthy reasons alone could justify the 6 first & no reasons the last. My course at Theopots was a matter of necessity, being compelled to teach without sufficient text books. Enthusiasm carried it beyond proper bounds. The 12 lectures in the school cost me nothing & netted me the enormous sum of \$12. My engagement at Mission Inst. was the result of their necessities Prof. Apthorp's ~~business~~ pecuniary affairs calling him East. The Chemistry Lectures were the result of solicitation of injudicious friends & the need of

funds to return East. The rotary lectures will only tie me to one place ^{3 or 4} weeks when otherwise I would be collecting plants from more scattered localities. Soon after they are finished I intend to go to St Louis & traffic with Dr Engelman for whatever St L. plants ^{I have not & can get} taking also a package of plants from him to you & to Dr Short, McKinney, & the Moravian Botanist & possibly Sullivant & Dorlington. The capital on which I start will be my own duplicates & a large stock of Dr Mead's (who now begins to suspect the world may stand a few years longer-) & whatever I find growing in the spring. If whatever I bring you will aid your Flora I shall be well satisfied. But why do I come east? Because there is no room for me at the west. This Presbytery cannot support the married preachers it contains still less let the single ones settle. I believe I am an acceptable preacher, I interest & can secure audiences & invitations, not to say importunities, for further appointments & in one case had \$2.50 given me for traveling 50 miles & back & supplying a Sabbath. This is the only offer of money for my services I ever received & that I gave away, that no Campbellite might make my glorifying void. But I will give you my reasons more in full when I see you. Suffice it I am satisfied that a year at the East is necessary to my usefulness at the west.

And what am I to do east? I do not know. Perhaps I may teach, indeed I suppose I must do so. I want to consult you on this point but I cannot put you in possession of the facts on which to base a judgement without seeing you. I will do so as soon as I am out of this Illinois breadmill.

What I wish of you now is to write me, as soon as you find it convenient, a letter of instructions by which my labors in Illinois this spring & on my journey & in my stoppages (of a week at a time) I may be of the most service to you. I do not know whether to see Sullivant. It would delay me a week besides the stoppage but would give me a first rate chance to botanize on the Canal. It mainly depends

Quincy 21 March 1845

Dear Sir

I have an opportunity to write, and though I have nothing important to communicate I write. The bearer may call on your family if in N.Y. if not I shall give him instructions to spare your time

The Philadelphia box is soon expected, & if it brings my long expected flora it will give me greater joy than any thing I have seen for a long time. If not the satisfaction of meeting it will be entirely swallowed up in seeing you. I am still on my lectures - chiefly relying on the black board but making a few experiments. I am resolved if I give a Botanical course this spring it shall be an exceedingly superficial one & short for I must travel & press plants. I hope a letter soon from you in answer to my last this will not need an answer. If however you lost my last as is quite possible I would wish you to inform me with little delay what course of collecting in Illinois for a month & what calls at St Louis Louisville Cincinnati &c would best aid the Flora - I want to bring in something splendid, if not from my own gathering, from Short Engelmann &c. An answer to my numbered specimens would be of particular service to my friends & might save future applications from them to you. The names if in a separate letter might be directed to Dr Mead Augusta - the other letter to me at Quincy -

Mr Williams the beaver is a methodo-congregation-
alist clergyman from Illinois. He can answer many
questions about the destitute west - destitute of the
desire for a good ministry as well as of means
to maintain one - He is a plain excellent man &
has done some good -

One Mission Institute has been incorporated under
the name of Adelpia Theo. Sem. It has done much
good & promises much more. My services there
close 11 April. For 5 months I receive \$60 + board. I
could have made more but they could ~~not~~ have
given more. The labors including the efforts neces-
sary to secure an incorporation have worn on me.
At present my nervous system is quite prostrated.

Yours in haste

J F Holton

P.S. Remember me to Mrs. J + my dear old playmates.
Tell them I want to hear "Who loves me best" again I
have enquired for it diligently in vain.





John Torrey MD

New York

Rev D. R. Williams.

Dear Dr

Edgehill Princeton 10 Nov. 1848

I am not ready to write you yet but what I cannot say now I will try to say when I answer Mr Humboldts letter wh I have not yet received. If he has not written hurry him off. I have not yet been able to find Tallock. Called repeatedly. Opened his door & threw in your parcel. Curtis' is in N.C. long ago. I will not leave any thing at W.A. Meads it is not safe. Dr K. will leave his parcel with me. If Dr Gorrey will consent to have your parcels left with him it would an excellent plan for you. I think he will make another attempt ^{this week} to get his parcel from W^m B. M. & I will ask him to bring yours too. I am glad Auguste is not burned but if you talk so bad about mormons what will ather folks do?

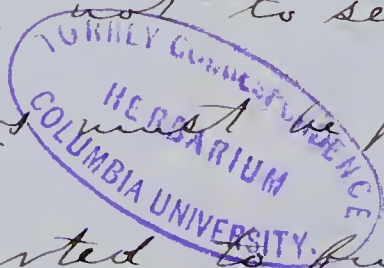
Oct. was vacation. I remained a few days at Princeton spent a few in N.Y. & went to Cambridge. Dr Gray was absent. I stayed & collected plants in the Garden then went to Rochester N.H. & staid 10 days returned to Cambridge & spent 2 more with Dr G. He is an excellent man all botanist. He will do nothing to the Fl. N.A. till his Lowell Lectures are through Aug 10 weeks Dr G is nearly through State Fl. works on it in N.Y. Will recommence Fl. N.A. before winter closes & we may expect a no. without fail next spring. All last week I was busy with Phonography - I devote this week too to writing consequent on my change from Stenography to Ph. after wh. things will take their usual course. I have much leisure time as yet. Another ed. of Lindley is to be published in Eng. I am sorry to find nothing better for me yet. Am reading a new work by Adrien de Jussieu. For me, my Lindley that I left at the bookbinder for you wd be a better manual. Have you got that yet? Jussieu devotes 139 pages (12 mo) to Orders their structures & properties.

Gray does even less. I wish I cd. see a specimen of D'Orbigny's Dictionnaire Univ. d'Hist. Nat. It will make 8 Vols of 768 pp. oct. & 192 Plates oct. for \$30. Completed in 1848


Coll Phys & Surg 24 Ap 1846

Dear Doctor

I was sorry ^{not} to see you again before you left but we professors must be punctual at our lectures. I was disconcerted to find you had not received the plants. I sent them by boat directed "Dr Torrey Core of Skillmon Princeton" - in Chalk. I supposed you had mentioned them to Skillmon.



Went to the Melting Ass^y with Mr S. today - They have tried it - it does well. The draft is so strong they think they may safely substitute coal for wood. Mr S hopes you will be in town before they fix the other kettle.

Mrs Stewart called in person this morning to say that the couches were done & ready to be sent according to any directions you would give. I do not like to send it to Capt Degraw  &c without definite instructions.

I have found the "Crock of Gold" directed to me in the new laboratory.

I have not studied much this week.

Give my respects to Mrs T & daughters. It is a long time since I have had a real letter from Princeton.

Yours in haste
J F Mott

Dr. J. J. Howard
P.O. Box 1000
New York



Proctor
Princeton
N. Jersey.



College - Thursday 8 AM [c. 1846]

Dear Sir

I have this morning worked the 3 sheets into my index. I should have done so before had I time, & I only took time this morning in hopes of eliminating some errors in season for correction - faint hopes I acknowledge but as I was going to write otherwise I thought I would try. ~~In this~~ I have succeeded in ^{finding} one or two new errors I think

~~P 435 Linna for Cissua~~ Corrected

P 434 dicchotomous (I suppose corrected)
same line as diechotoma before noted

P 444 C? Purshii or A?

P 449 - Bout. &c is not Spanish
gu - Boutelon? French

P 454. I think Wild-oat grass an

objectionable name, out of the Wild-oat genus:
& would prefer Spiked Danthonia. I have just found your list again & I think my errors are reduced to one
i.e. P 449 Spanish - of this I am ^(as usual) very sure. I cannot recollect to have seen precede it in Spanish but unfortunately my dictionary is not at home. I should not wonder if there was not one ou in the language.

For Vilfa I have been looking among Swedish Danish & German proper names in vain. It looks Danish to me. On Azolla (Lamarck?) I have done my best in vain. I think no man in his senses would have combined *azw* & *ö* *Wolfe*

on so slight grounds. You did not give me the author of *Asolla* & for a long time I sought the word in the German.

Does not the whole matter of Botanical etymology need to be taken up in a work by itself? By taking all the names made by the same author together, & reserving the hardest authors ^{for} to the last I think there are few names so fanciful but they would come, especially when aided by what ~~light history~~ historical light could be obtained & a knowledge of the species from which the name was drawn. Conjecture should not be let loose. As a specimen (& a very moderate one) of what it will do see my note to Dr Gray on *Moruta*. I write it to him, first to save you trouble, & 2nd to take the opportunity to say some other things. If you prefer you can embody what it says in your letter & then you need not send the note.

Stephens thinks *Aipa* is not a primitive. He derives it from *Aipa* under the impression that *Lolium* is degenerated wheat or from *Aipew* as it must be taken away from the wheat in cleaning it. But this belongs rather to Classical etymology than Botanical. Botanical etymology is history with its chasms filled by conjecture, generally certain - sometimes remote. General Etymology is all conjecture except a few words like *Macadamia*.

I reckoned without my host as to the L.I. trip. That conscienceless boat charges 4/ or 5/ each way.

If you hear further from the Am. Ed. of *Revue* the

Vegetable Kingdom I should be ~~very~~ glad to know.

Two mornings more will finish Donnell's Chemistry. Next in order comes the remainder of Gregory in Turner, but I think I will defer that, hoping not to lose it thereby & devote my spare time to the Flora.

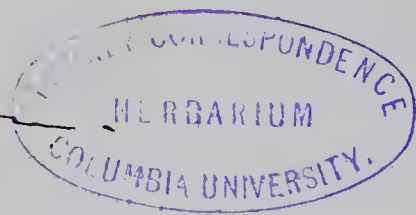
I received a letter from Hills Grove (Ill) yesterday. I was rejoiced to hear that they had been blessed with a delightful little revival - great indeed for so small a place. It may double their church which was doubled once before by a much more limited work.

If your notes on Dr Meads plants come in you next I will send them right on.

I have had company - It is nearly 11 & I have not breakfasted yet.

Yours

J F Holton



Dear Uncle I have only time to say that I hope to write you soon a letter, but just now I have no time. Three hours & half have I been in the Custom House this morning - I am well & shall see the girls this eve^g at Mrs Straits. Goodbye

Love to all

for me

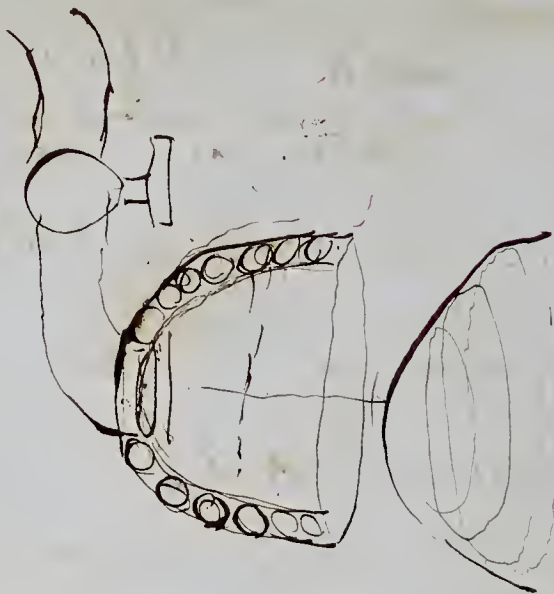
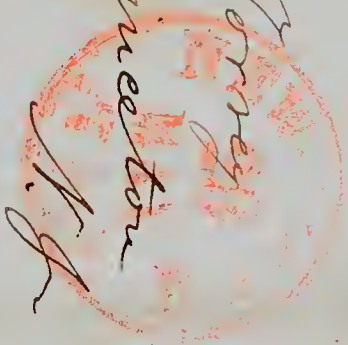
Mr Wiley has an errand

Yours affly, Hastings Grant.

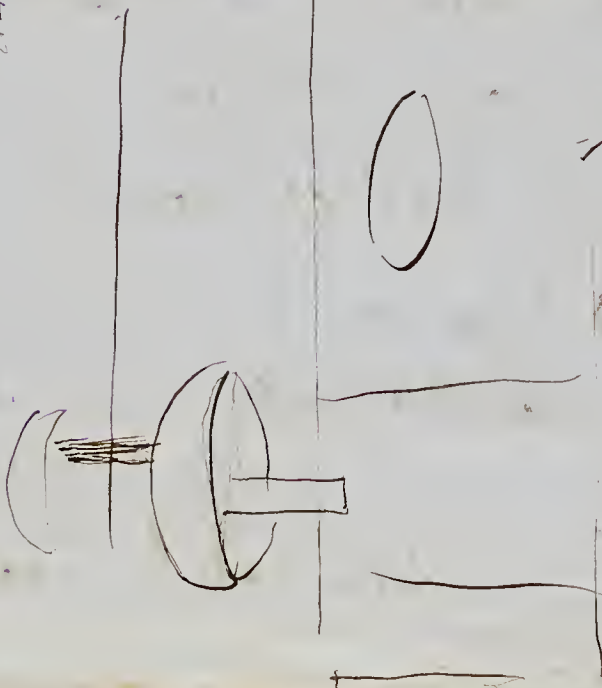
Halsted sent a living plant for you,

Thanks to Mag & mother for their letters.

St John Jones
Princeton
N.J.



F.R.



Thursday evening [c. 1846]

Dear Sir

I finished your tables at once on getting the materials - The proof sheets (except the last which I had the precaution to work before sending off) come this morning. I don't like your additions ^{for} the no. you see in the body of the work was 1500 exactly. Subuloria must go in & this makes 1509. Dr. Holton's party ed. not have sent you those plants - I am sure it is either Browne or K. or both - provided Dr. C. lives in that Co. I begged K. to make C's herbarium for any thing to be added - Browne has found no other plant to contribute Subuloria - quite a no. of localities he can add.

I am in doubt whether I have calculated the table as you intended. You could not have meant the percent as that wd. convey no new information. Fractions of 100 will give no more definite idea than fractions of 1500. I think the table of large orders would answer the purpose - the fractions of the others is of less consequence. You did not say whether you liked that. One of my letters was from Madras - the other from my brother to whom I can now write. Thank you for forwarding them. Dr. Crondall & Mr. B. were together when Subuloria was pulled up. Neither knew it you pronounced on it. Mr. Browne has it not or I wd. have sent it at once. He is not in to night - expect to see him before this goes - left a note for him. Eupatorium rotundifolium is in its place. Don't know as I shall tell you where I got my information about "those 500 copies" The Sec. of State told my informant - he charged me not to tell but I told him I certainly should.

Tell Mrs Torrey I have found a book. It is "Home" by
Chas T Torrey written for the support of his family between
the verdict & sentence. The style is wonderfully simple.
Moreover I suspect the book throws a little light on your
ancestry.

Morning - Mr Browne has called - he has found his *Subularia* -
It is *Leucostella subulata*

He adds *Polemonis graveolens* banks of Hudson at Peekskill

Xanthoxylum Am. Putnam Co. 6 m N of Peekskill

Galectia globella hills Peekskill
Hylosanthus elatior

Gaura breuneri - river at Peekskill (Rare)

Sedum telephium Field at Salem Westchester Co

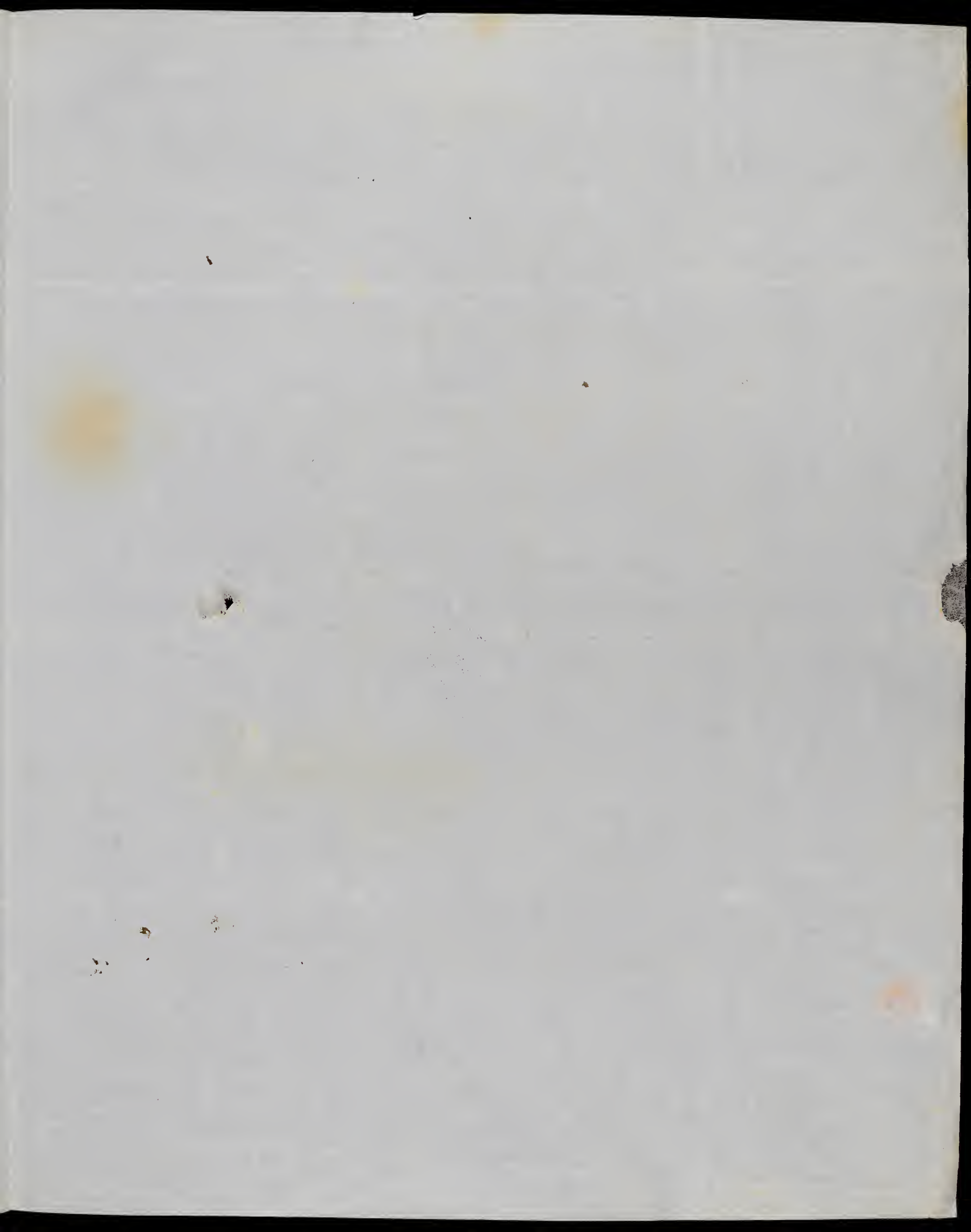
Acuta bulbifera Peekskill

Campanula rotundifolia Westplank's point

I have no time to add more.

Excuse my haste. Love to all the family. Be sure to
bring letters from Mrs I & Eliza. Continue to be at a little
business here if you can. I go to Durham tomorrow with
Mr Browne. Ever yours J F Holton.

Will you ask Eliza or Margaret to look over the calcu-
lations of these tables I fear there may be errors in the
adding or division





Dr John Torrey

Princeton

N. Jersey

Sat morn 18 July 1846

Dear Doctor

I hasten to answer your note. I did not suspect you had left any thing except the index to Vol 1 wh. I was careless enough to leave out it being buried up at the time. All was safe in Hastings room.

Mr Brown's name was wrong in the 1st Vol. I did not know the true name but I have just been down & sent to him in bed & got his name.

I have been fishing your papers for the Index - I have got *Polyzola lutea* & *Loxema Conradi* but cannot tell whether to put the latter among the C's or the L. S. Sponges of *Saxifraga arbores* yet to be given me & corrections of *Polyzola*.

I have been over the whole index examining the alphabetical arrangement. That of the latter part of Vol 1 was much freer from errors than the first. This morning I underscore the generic names of sponges

Which do you prefer

Tuckermannia 517 } or Tuckermannia Conradi 517
Conradi 517 }

You used both. I think the last best

Which do you prefer

<u>Azalea</u> 75	} or {	<u>Azalea alba</u> 77
<u>alba</u> 77		<u>nudiflora</u> 75
<u>nudiflora</u> 75		<u>viscosa</u> 76
<u>viscosa</u> 76		

You adopted the former in Vol 1. I would a little prefer the latter as it makes the long Index shorter

Mr Browne has kindly communicated some omissions in the index of Vol 1st such as *Rhododendron viscosum* & *Rhodora*. I will get the paging from his copy.

Have you the minute for the locality of *Pterospora*? In those new localities would not the precise spot be more valuable than the district?

I have not been entirely well this week & do not feel satisfied with my progress. Hastings kindly relieves me of your commissions down town, wh. leaves me more time for work today.

You left I suppose a small pearl handled & bladed penknife on your way to Boston I have it safe.

When will the next no. of the Flora be out?

Mr Schäffer ^{had} ~~did~~ not get your letter
yesterday - I suspect he has not utterly
abandoned his southern project tho'
he says it is "all up".

I must save a moment for a note
to Mrs Torrey.

You may count the index as good as
ready at 2 hours warning tho' I shall
not let it alone till it is off.

When will its proofs be out? i.e. the
Flora completed?

Dr Jones

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College - Tues. Morn [c. 1846]

Dr Torrey

Dear Sir -

I rec^d your note last night - I thank you much for those drawings - I often receive your favours in entire silence because words only seem so inadequate a return - I wish I had more ^{opportunities} ~~time~~ for more substantial demonstrations - I began a course of 22 lects for Miss Green on Wed. after you left. I give 3 a week which keeps me very busy - Your drawings will allow me some respite - I succeeded in interesting my large class very much till yesterday when I perceived to my great alarm a serious falling off of attention -

My subject was Compositæ. This and Araceæ are the only orders I have undertaken. I have still hopes of resecuring their attention next time - The subject will be Exogens & End^s One lady showed me her notes of amazing fidelity.

I have scarcely seen Porcher.

My oldest brother whom I had not seen for 13 years has spent a week in town with a ~~next~~ son. They have driven me to the utmost to give them time & not neglect my classes. They left last night.

I have not seen Eliza - nor Margaret since you left.

The laboratory is but partially put to rights yet. I shall now have time to make progress in it.

I have not seen Schaeffer since you left.

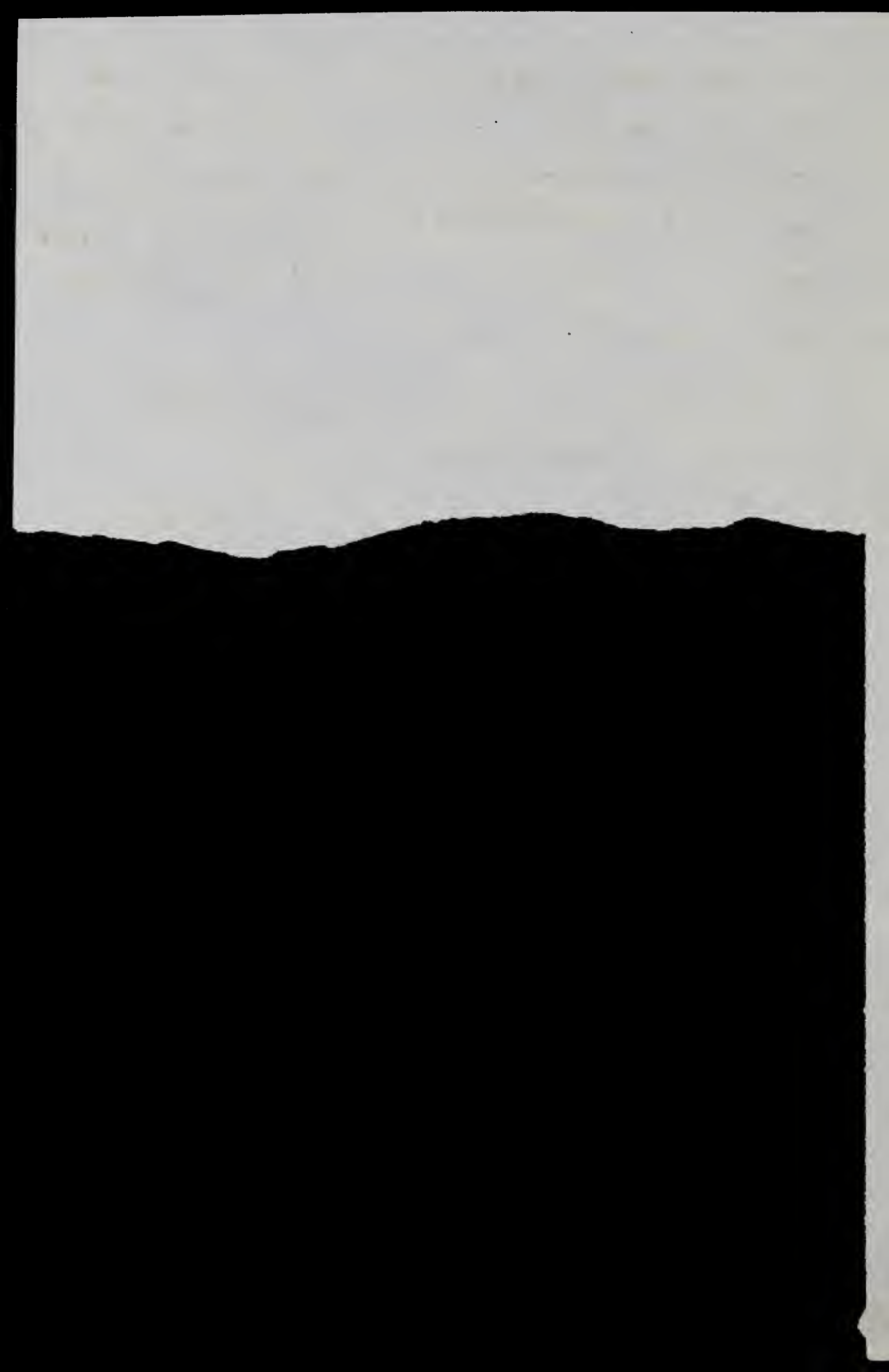
Was much delighted last night to hear from Edwin & particularly of his hope in Christ. I am a strong believer in the Abrahamic covenant & hold Hastings convention to be sure. May it be speedy.

I shall probably miss your criticism now I have these drawings. I shall have done with them entirely before you will want them. I have borrowed Gray from Browne & Lindley 800 (Introduction?) from Miss Haines. chiefly to

make drawings from. I make out
poorly enough. I am surprised to find
myself as deficient in the mechanical
as in the aesthetical requisites for paint-
ing. I have been out for plants
but once this year.

My time is up & I must close
Love to Mrs L. & the family

I F Holton



College - Monday Morn

[2.19.11]

Dear Sir

I snatch a moment from my preparation for my first lecture on morphology to answer your letter of 20 May. Had you sent it through Hastings it would have reached me before I wrote last. Mr Schaeffer has not yet returned. I went to Mr S's father's but he has moved high up town -

Those drawings prove very useful but not so much so as the paper ones. In Morphology & Veg. Anat. they are rich - in some other departments moderate - in others still meagre - Had they been drawn for coloring it would have been infinitely better. I know a lady who would color them on low terms but they have too much ink to color well I have nothing to color by - I could have a few colored without special directions from you e.g. Strawberry & Carrot - I want good drawings on the following orders on which I shall lecture specially. Those I mark (x) I have some drawings of now.

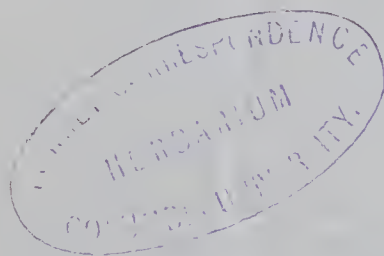
Algae	Cruciferae
Fungi x	Leguminosae
Lichens	Labiatae
Mosses x	Scrophulariaceae
Grasses x	Compositae x
Cyperaceae x	Anchonaceae
Orchidaceae	Umbelliferae
Euphorbiaceae	

Some of these I may find in the
 Materia Medica room (doubtful) &
 some at the Lyceum. If you have
 any of them drawn at Princeton or
 (large) it will save me hours by
 sending them. If most of them can
 be found in any single volume, colored,
 say in Bellesart even. I would feel
 justified in asking the loan if there
 were a safe chance to send down.
 Do not let me urge your generosity
 too far - but where an entire day
 is to be spent on a drawing it is
 desirable that it should be from
 a good copy.

I catch eagerly at your proposal of employment - I may have but this one course of lectures this spring (but in this I am now nearly certain of all the success I dared hope) - therefore even a small accession to my funds will be of great service - but again working under your direction & for you will I am certain be the very best lessons I could possibly take.

Miss Green pays of a debt of \$43 due last 30 Aug - & leaves \$7 towards shirts & cravats shoes & glasses which I have yet to purchase -

H. is off



Prof. Geo Torrey

College - Monday morning

[c. 1845]

Dear Sir

I have just received the third proof sheet to page 456. I am not quick to detect merely typographical errors but noticed these - P433 pungens & obtuse P434 bend for head (caput?) I would have translated *arista* "the head or ear of grain". Same p. *Aristida dichotoma*. P441 after Withering dele (.) P445 last line littoralis. P453 Arrhenothrum & just below avenaceum. Besides these I suspect an error in the authorities for *Urolepis aristulata* "Spreng. *arista*". *Curtopogon* (P434) if correctly quoted is bad. I suppose the ~~name~~ *Muhlenbergia sylvatica* was a joint effort - but did Dr Gray claim his share in the *Grav & Gp*? If not I conceive the author of the *Ny. Flora* ought not to give it him.

Several works are quoted which are not enumerated at the beginning.

Before speaking of derivations I wish, pace tua, to advance one principle of which I am very confident - as you know I often am of an opinion that may be entirely wrong. I think the scientific writer ought not to step into the place of the etymologist but when he has carried the scientific name back to the classical word from which it was actually derived he should leave it there & let

the lexicographer trace its pedigree as far as he pleases
Eg. having said that *Fucus* was from the Latin *fucus* I think
he may with propriety stop there or if he will go on to say
that *fucus* is from the Gr. *φῦκος* & that from the Arabic _____ &
that from the Hebrew *פִּיד*, that here he is bound to stop in all
conscience, & leave the Rabbins to say why *פִּיד* ever was used
to denote sea weed. Ne sutor ultra etc.

I know it is presumption for me to offer you my
opinions on this point but they cost you nothing except
the ink with which they are written & even that I suspect
may have been a present from Kent.

I now venture some almost equally presumptuous
remarks on individual nouns & for brevity's sake I
will speak ex cathedra having concentrated all my def-
erence into these two sentences. *Calamagrostis* - καλαμος
means a reed - never a palm. The word spread from *Calamus*
frutescens to all culms. *Phragmites* from φαριγγίς growing in
the hedge. *Eleusine*. Eleusis is not a name of Ceres. She has
I suspect an epithet taken from the name of the city
Eleusis where her games were celebrated, & where I conjecture
this grass or some grass (I am safe at last) grew, hence called
πῶα ἐλευσιναιῖα Eleusis grass. Derivation: From Eleusis a city
near Athens. *Spartina* from σπάρτις made of the bark of
Spanish Broom. *Tira* not from τῆρις but from αἶρα holium tem-
ulentum ^{a primitive} underrived word. *Avena*. The Latin name for
Oat. (See bottom of last page & top of this). *De Danthonia*. He
who will transpose two letters & write this Danthonia
will do nomenclature a service. *Muhlenbergia* stands on
rather a critical footing - nothing but favoritism I fear can
sustain it. *Rafinesquia* would have been pitched from

it neck & heels. Before getting off my stool as you may perhaps never suffer me to mount it again. I will suggest that where a name, given even by Linne, is an outrage on public decency it should be changed at once. It is no use to say Clitoria is derived ~~from an~~ anatomical term" & leave the matter there. Curiosity is whetted. the mystery solved information diffused - imagination excited & youth of both sexes corrupted ~~but~~ the laws of nomenclature ^{are} observed. Pederota & Phallus are two other stains on the character of the father of Botany which filial respect should efface even from new editions of his Genera plantarum.

I shall make my calculations for Oyster Bay on ~~Tuesday~~ ^{Tuesday} week. If you do not hear from the plant I think I ~~will~~ go even if you do not send me. The trip will not cost over a dollar - so please let me have directions where to look (in grass or in woods &c) & a letter to Dr De Kay whom I would be glad to see before my return from his vicinity. The boat favors me & give me an entire day, an evening, & a morning.

I expect to spend this week Wednesday night at Jamaica. Tuesday. I did not get this off yesterday as I hoped. It is surprising how little I do in a day & how tired I am in the morning. I got a letter from Dr Mead yesterday - shall answer it as soon as I can enclose your report on those plants for which he has waited nearly two years.

I have not seen Jone yet & only barely seen Eliza. If you meet another notice of the Am. Ed. of Lindley will you be kind enough to send it to me? I fear this will come too late for your return of proof.

Ammonium ranges itself with Potassium & Ganogen with Chlorine - how many more radicals can be classed

Yours truly J. F. Holton.

Holton

Collect Sea weeds and. Island

P.S. Hastings has forgotten who to go to to enquire about
willk. I do not like a doll-like breaker & he does not like
with that - will soon before night.



N.J.

Princeton

Dr John Torrey

When does *Aporosa longiflora* flower?

Sendag mmm. I have just rec'd Mother's letter & will
attend to it. Last night I saw China. I am
quite well & was right glad to receive it. N.Y.

Tell Mrs T. I want to hear from her - Why don't Harry write me?

College Wednesday night
[c. 1846]

Dear Sir

I have just received yours of yesterday on my return from Jamaica. Found Mr Sneyd well. He had been quite sick. I wrote him to night the substance of your note. I do not think he will be in till Monday. He means not to send for you till every thing is sure to be ready. I think Thursday or Wednesday night will be the time for you to come.

Thank you for that letter from Ceylon. I am glad your dust suits & sorry for the necessary delay. I fear I shall not see Mrs Word. All well to-day at Mrs Shaw's in Hicks St

To-morrow morn I must go to Perth-Ambury - may be absent 28 hours.

Please thank Eliza for her nice
long letter - Nearly a week must
yet elapse before I can answer it.
But I wish to correct her im-
pression of my opinion of Mr Colman.
I think him a good scholar.

Analytical Geometry is but a
modern college study - Mr Coleman
(If he be Rev Lyman Coleman) grad-
uated at Yale in 1877 & was
afterwards tutor there. That is
guaranty of his scholarship then.

Most graduates soon forget their
mathematics ~~soon~~ ^{unless} ~~after~~ ^{they} teaching
them. I supposed Mr C's strong
point was the Classics

It is late & I must be
at the dock at 5½

Good night

J. F. H.



Dr Torrey

By Mr Grant

[c. 1847]

College-Friday 3 P.M.

Dear Sir

I suppose you wish to know the result of my tour. In one word it was unsuccessful. I met Dr DeKay on the boat - he took me home with him, furnished me guides & conveyance - thus increasing my facilities to the utmost. I was out a half hour the first night & again before breakfast the next morning near his house. After breakfast took the route Dr Emmons had pursued - scoured the plain & went as far as the railroad but in vain. After our return Dr D. accompanied me himself to some localities visited by Dr E. It is conjectured that the specimen must have come from near Islip. Dr D. is soon to write Dr E. & will then enquire where he found the specimen & of course will obtain no satisfaction. I left the specimen & the family will all be on the watch for it. The ^{whole} ~~number~~ of them I fear are good explorers. After my return I was out again after sunset & before sunrise but not with any hopes of finding the plant. I did better for myself than for you gathering 130 pages of specimens some of which are already dry & out of press. I like my press better the more I use it. It will hold 200 pages of specimens 1 sheet & collars g.s. My specimens will be better than the average I make in the city. Could I only afford it I would like to test its powers with 402 driers on the White Hills next August - nor is it certain that I shall not. I found a *Hedysotis polygala polyg.* - *Drosera akubus*, probably *sexatilis*, *Oxycoctus*, probably 2 *Andromedas* (are those sheets of *Erica* in the city?) & many other plants I had not seen for years. I committed my usual share of blunders - the worst of which were taking *Helianthemum* for *Eurothera fruticosa* & *Savathra* without

flowers for an Equisetum! Dr Dekay says if I will come out again he will take me to Jerico (no I was there ~~Wednesday~~ but to Babylon.) He is very kind & the ride would be no doubt highly interesting to me but I doubt its feasibility.

Never was a house situated more pleasantly than Dr D's. It is on a beautiful beach in a fine bay apparently in the heart of a wilderness. Still he is close to a road from which no part of his ^{house} is visible & close to the landing - much nearer than the village is from which also his house is hidden. Miss Dekay sings much & well - reads Latin French German & Italian. A tutor is employed in the family - formerly a member of Douay Coll. & I fear still a Jesuit. His eldest son is Mr Smith's constant companion & I fear much under his influence - thinks Luther was in danger of excommunication for licentiousness at the time of his rebellion - & does not deny the real presence & (why should I deny it?) is at heart a papist.

There are no naturalists in the family & Mrs D till lately even supposed mice were young rats. The children are very amiable & kind to each other & respectful to their parents. No government seemed to be needed. The family seemed to manage itself. There must have been two servants but I only saw one & that accidentally. Mrs D seems languid. They enquired very particularly after you & your family. Dr D is a zealous Episcopalian & declared enemy to Oudendunk. He was the means of having a cross erected on Our Church. The children are 3 daughters & 4 sons. Miss D is I believe both organist & prima donna in the choir & a laborious S. S. teacher & I suspect not friendly to "dissenters" as such.

I have been particular in giving my views of the family because I thought it would interest you but I hope I have not acted the part of a spy in so doing - saying nothing but what you would readily discover but even this I would prefer should be in a degree confidential - Of course I don't mean to exclude Mrs T from any thing in it she may think worth reading.

Revenons a nos moutons. I am sorry to find uncorrected in my proof sheet a few errors. P. 462 some thing flowers from August till June. P 475 the second paragraph of the 3 which you give to each species is missing in *Fr. caninum* ^{*pitium*} P 481 I think *Fr.* should be *Fl.* as it is the time of flowering which is given to the other *Equisetums*. Neither is given to *E. variegatum* - nor to *Hippuris* Vol 1 P 244. I do not like the etymology of *Trylockia*. The noun sing of awn is *πλάξ* *nom. pl. πλαξίς*. Is there not in classic Greek such an adj. as *τρίπλοξος* three awned?

In your table I find *Amaryllidaceae* but none in the Flora. *Altidaceae* is a suborder & probably crept in unawares. *Fluviales* & *Najadaceae* are both inserted - the former I suppose by accident. *Moluragaceae* is a suborder & numbered with 02. *Junaceae* is a S.O. of *Alismae* but by mistake I suppose is numbered separately in the Flora as none of the others are. I fear you may think me very particular about these little matters - but I only suggest them to you that such may be noted as you choose.

I looked in vain for a note for Prof Vappou - I shall walk down to the P.O & mail this tonight hoping thereby you will get it in season for the morning mail of Monday & if the note is Cove Wiley & Putnam I shall get it by Hastings & use it Mon. Eve. I'll press in this matter.

The proof goes with this to the mail. If they send down on Monday I
 can send up the 1st sheet of Index on Tues. Eve. Shall I? Or send the table?
 Don't the logarithms. Eliza has them though. You want the table like that in Torrey's
 Lindley. - Acouthaceæ 1 | 1:1400
 Araceæ 7 | 1:200 &c

Dr Halley has kindly written me twice relative to opening a boys school at P. Ambog.
 I will not answer without seeing you - At first view I am no wise favorable

John Torrey M.D.

Princeton N.J.

college 8 June 1847

Dear Sir

I must not let this letter, from Halstead I suppose, go without adding a line I am now enjoying a splendid "otium cum dig." having nothing to do but work for myself. It really is a relief to me to know that I have not to lecture to-morrow nor next day. I concentrated all my efforts on those lectures but if it is ever to be done again it can be done much better & with much less effort. One ^{capital} error was relying too much on that general knowledge of plants which is common enough in country girls but here is as rare as nautical knowledge is to landmen. However all passed off better than I ought to have hoped - only I have such a faculty for hoping -

I shall occupy myself for the present chiefly in my much neglected correspondence & in arranging my herbarium from which these lectures called me off when I had nearly completed the beginning of the task. I now am alarmed at looking at it. It never can go back into those boxes again. Indeed one is actually occupied now with various suppeditaments - blank papers - plants to be examined &c & the other will soon only accommodate my duplicates. But for my "holders" or genus papers I never should have again reduced my plants to order.

You know the builders are overhead. It is all racket & rubbish. Confusion reigns in the yards & mortar rains from above. I am sorry they do not raise the whole building a story while they are about it.

I went on Sat P.M. to Weehawken & W. Hoboken with Mr Browne & filled my press for the second time these two months. I use 3 or 4 times as much paper as last year & the effect on my specimens is very satisfactory.

I wish to ask you to correct the error which perhaps you can better do at Princeton than here. In the *Annals of*

the Lyceum Vol 4 P 92 you say speaking of the cotyledons in a capsule of *Lakibel maritima* "they were incumbent in the inferior seed & spirally twisted on the axis of the silicle in the inferior." Which is right?

Wednesday morn. It rains--probably rains at Princeton--rains commencement day--Well it rains here too--It rains out doors rains up stairs & begins to rain in my room. I do not like this introduction of some barrels of water into the substance of the building. I fear it will not dry out soon.

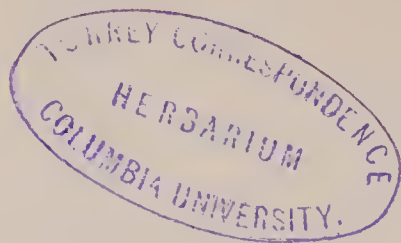
Night before last I went down to 84 Broadway to watch with Dr Gould, but fortunately for me they had made arrangements so that my stay was needless. Last night I went to the Theo. Sem. Anniversary with a lady whom I found on my return to be engaged in a large school in E. Broadway where Mr Hume is now lecturing on Botany. On Friday I expect to go there & hear him.

At N. & P^d I have been waiting an hour or two for a letter from Hastings but it does not come--

Mr Schäffer's election is postponed as he will inform you on Friday--He considers it merely a vexatious delay
Give my respects to all your family

Yours in haste J. H. Holton

Dr Torrey--



[? April]

Sat. Morn 22. 1848

Dear Doctor

How shall I thank
you enough for these plants? I
expected 500 of them. There were
over 500 of them! When I tell you
that the last of them will be in
its place in the herbarium before
9 o'clock this morning you will see
that I have not been idle. I shall
not mix the duplicates with mine.
Mr Browne has taken a part & I
think the Lyceum & Leroy will take
the others. The grasses ferns & Ericate
genera gave me much trouble from
changes of names. I was astonished
to see a Flora so like our own. not 20
new genera to my herbarium &
most of them found here. The
inequality of the addition struck me;
for long spaces no plant was added
other parts of my herbarium were
actually swollen like a dried ap-
ple when soaked. I am more &
more satisfied that such covers
as you have are not the thing.

There would have been no end to the trouble had mine been in folios. Mr Brown's is like a crustacea that cant get a quiet chance to cast its shell. He has not added to it for a year or two & has many hundreds that ought to go in.

If you would go to the pines on 2 August I would go with you just to be with you - otherwise I start at that time for Rutland & Windham Cos VT. (S.V.). My Money matters are much easier than last year besides that I have paid all my debt - only I must wait a little for a new watch & a new coat. Next year I can (better) ^{make} ~~my~~ terms with Mod. C.

I have broken ground in the matter of the Free Academy, but if I am to have Gibbes for a rival it is of no use. I did not hear of him, nor Doremus, nor Hume, but only of candidates I had never heard of before - If they sepor

ate Botany from Chemistry, or
if Dr Gibbs would not take it,
I shall ask you to help me &
perhaps very soon. A note from
Mr Robt Kelley asked me to see
him on this point the last of
next week when I shall deter-
mine.

I think of breaking a few
stones in Rutland Co. You once
proposed giving me a Philip's
of which you had a newer edi-
tion. I conclude you have but
one edition. If you can lend that
& your blowpipe (here) I would like them.

I beg pardon for neglecting
Miss Doyle's bill so long which I was
to have sent ~~by~~ I will send by Mr
Grant in season to settle before
I leave.

I spent a very pleasant evening
at Mad. Chegar's last evening.

Our Sabbath School is improving.

Our Ch. embarrassments are not
diminishing.

Remember me to Mrs G. & the girls.

Yours J. F. A.

Laurel B

N York 17 May '48

Dear Doctor

I received yesterday a note from Mr. Trevel, in which he says your package comes too late for him (General & Wedding cake?), but that he will leave it at P. on his way to Philadelphia 14 May - last Sabbath. So I suppose you have it.

Mons. T. is in raptures with his Princeton visit.

I spent the Sabbath at Perth A. Dr. Corey's child died in the course of the day - an only son. I preached for him with much reluctance half a day Dr H. being unwell & his brother being on bad terms with Mr Corey. I undertook the task with reluctance, as Mr C is an uncommonly good preacher, & executed it with unusual embarrassment.

I send you a plant we found Monday - a very small specimen. Will it not have some interesting bearings if we prove it not to have been introduced?

My health is not good yet.
I have not redeemed the time I wasted
on that inaugural that nobody
took the trouble to hear.

I have made no drawings
since - I shall make one to-day
perhaps of seeds entirely, mostly
taken from that invaluable 'Genera'.

I have enjoyed or nearly enjoyed 3
copies of it without trying, merely
expressing one half of my exuberance
of delight at it.

All seems to go well at Mod^e
- Chegarays - & at the Pharmacy where
'we a lovely band' gather round
a table & talk it out together. It
will yield me \$32 perhaps more.

I go through my herbarium very
slowly having only finished Poa

Will you ask Mr Evans to tell
me the whereabouts of my tin pail.
I have a faint recollection of lending
it to him for a refrigerator of Ar-
tificial Comphor & for some other
purpose - & have not seen it
since. I cannot well do without
it - The cover was left in the

New Laboratory but that is of
no use without the pail nor
to me the pail without the
cover.

I sent Dr Mead some plants
yesterday & have got the laboratory
into a precious confusion.

When will you be down again?

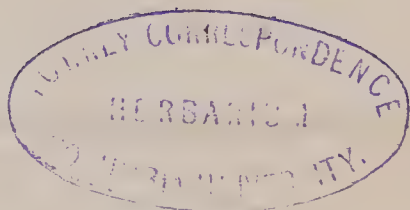
Give my respects to Mrs Gory.

Yours ever

J. F. Holton.

P.S. I see I have not mentioned
Dr Grays present to me of Genera
& Chloris - he gave his last proofs
to Dr K but I have as yet no chance
to send them.

Might I not hope yet to review
the Genera? It will be some little
time before I ^{can} go on from where
I stopped to write that poor in-
troductory.



New York 29 May 1848

Dear Doctor

I am sorry & ashamed to have on hand 4 unanswered letters of yours & sorry to answer them all by one brief note but I am doubtful as to the space in H's letter & more than doubtful of my time & strength. First of these in date - not in reception is that of 13 inst. Engelmann's pamphlet much surprised me. What a form to publish half a hundred new species in! It seems to me scarcely above a common newspaper. The Dutch fls I have not seen. I have not seen Brécul since. The "pharmacy boys" are a fine collaneous set but there are no druggists clerks among them. I am not doing too much for them. I am going over the plates of Gray genera with them & poor K. must yet wait a week before his kind friend will transmit his sheets to him. He has not written me since his removal not even to thank me for the Manual. It seems he might have written by his ~~son~~ who called for it. I would like of all things to "take up some tribe of plants &c" but it would necessarily be with much assistance from you & a trial of your selection. But why not the growth of exogenous bark? I doubt whether it is understood. I do not find it in Gray. In justification it is not clear. Gaudichoud may have N.G. state work in his presence!!

And answer Perry has just called for five work articles - will get them Wednesday.

it. Would my Microscope answer the purpose? Perhaps Trecul's "Nemophor jaure" would show how to begin. I should be equally happy to go on with the review (& I have a nobler subject for it) but not with both. I should be ready by the time you would get leave from Dr Gray. My Irishism which you found in your note of 17 Inst was of your own making. Trecul's letter was dated 13 May & received (as I said) 16th. So would many Bible difficulties vanish could we come at the facts. How came ballast with *Erodium* seeds on the South end of Staten Island? I would like to make it out indigenous. It was scattered ~~over~~ a pasture some ways from shore. The locality shall be better investigated. Is the book found & the wadding cork eaten? In the confusion I was in I could not find the few receipt to send you - tho it was in my pocket I will not send it now. It is "in full for per rent". He said you did not tell him you would leave before May, but as he could not say that the funds had rec'd delinquent from you in information he remitted March & April. Endicott (Jr.) did not know Mrs Brooks address some time since. See him again to-day. He thinks he will see her & ask her.

I begin to fear I must take better care of my health. I am not used to being solicitous about it. I fear this last trouble came from wearing wet boots from a salt marsh till bed time - from 5 till 10. I don't like to think that such a thing would hurt me. I botanize but little & don't find much. My only possible intervals are - from Friday 9 P.M. to Monday 8 P.M. Tuesday & Thursday at 10 A.M. to next day at 2. Last Thursday I went to a friend's at Ravenswood. I found on the salt marsh only wet feet & myriads of phlebotomists. Next day I brought back *A. Sipho* from their garden & a mole? *Lania horrida* come from Thornburns. The rain kept me from the woods. The cone has permanent anthers? 1-celled long & persistent on the under? side of each scale. I did not even get a chance to go to Astoria & see a lady whom I am always glad to see & her garden where I may get *Gillenia* 3fol. My papers dry very slowly, & worse, imperfectly in that damp laboratory & resort occasionally, as this morning to a fire in my room for this purpose.

So slowly do I get over my plants in looking over my herbarium & looking out duplicates that I am not yet through

the grasses. I am rarely down town -
make short work with correspondents,
make few calls - receive almost none
have little non-scientific reading - do
not read the news except a few snatches
& am short for time. I have now, (last 2)
been up over 4 hours & have accomplished
nothing but what you see! And yet I
have been busy & for a sick man quite en-
ergetic all the morning, & now feel some-
what fatigued.

Just now a package of plants tied up
in a sort of black folio caught my eye.
It seems to have been hidden in open sight
for a year or two among those empty boxes
you gave me. It seems to be a collection
running from Ran. to Leguminosae -

I hope to write a notice for Gray's
Genera for the Observer of this week but
I have my fears. I have no hopes of get-
ting it in without giving C. a copy of
the Manual - He was over to Durham
with me Sat. week.

I do not... Schemmner has just called
with an engraving for the patent report of the
most horrid botanical character but well executed.
I think you might try him to advantage.

A. asserts that E. bihered some of the Salvini of the N.Y. State work in his presence!!

Dear Doctor

I am sorry

on hand & unanswered letters
to answer them all by one
doubtful as to the space in
doubtful of my time & strength
in date - not in reception is
Engelmann's pamphlet much
a form to publish half a hun-
in! It seems to me scarcely
newspaper. The Dutch St. I have
not seen Brécul since. The "pha-
ne is callaneous sett but these
clerks among them. I am not
for them. I am going over the
with them & poor K. must go
His kind friend will transmit
He has not written me since his
thanks me for the Manual. It
written by his son who colle-
of all things to "take up some
but it would necessarily be
from you & a title of your
not the growth of exogenous
it is understood. I do not find
since it is not clear. Gander
I may with difficulty meet you in the pines in a
few weeks. I am delighted with your message from
K. I hope you will be my private friend.

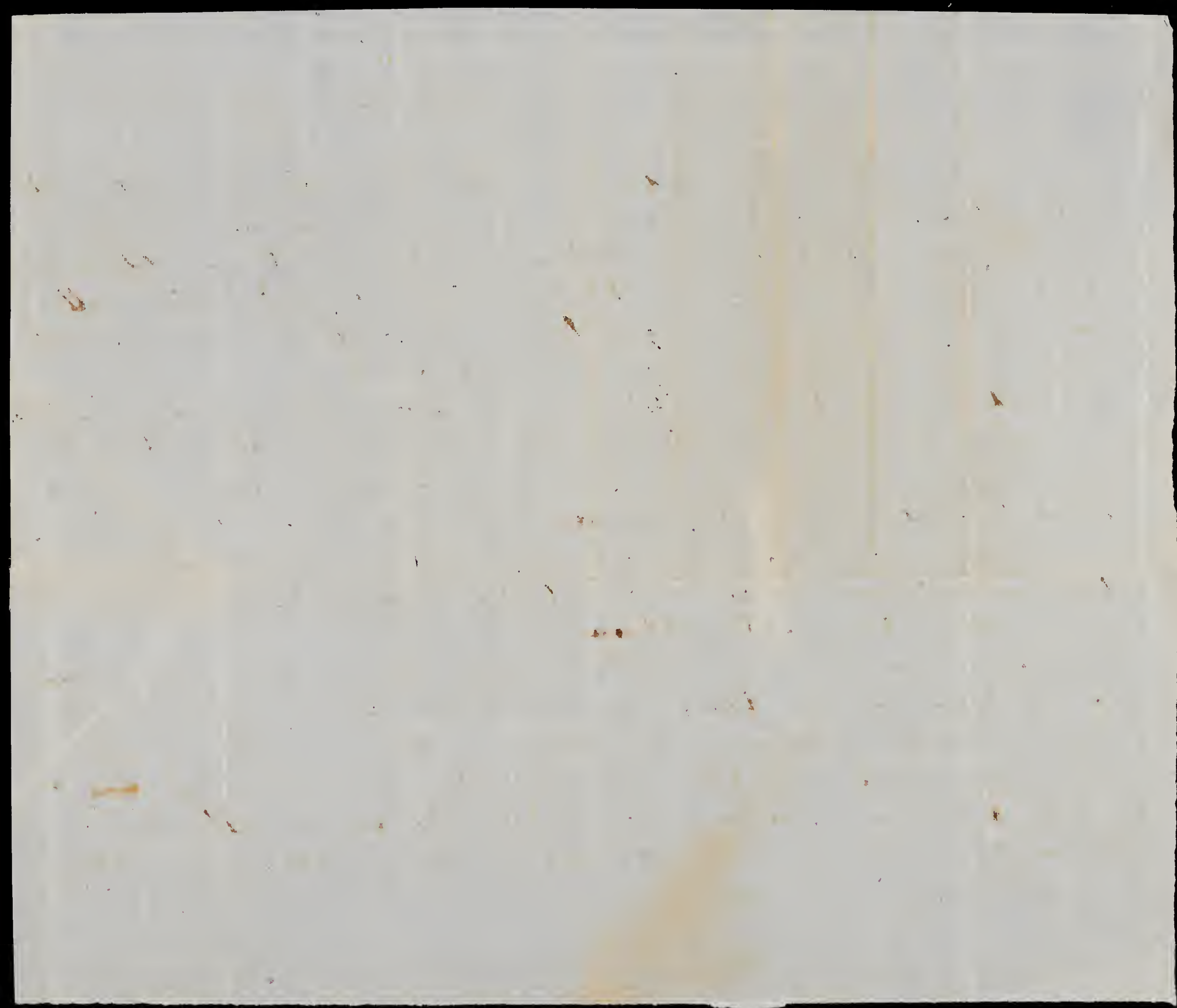
Sunday morn 2 June 1848

Dear Doctor

I send you with this a long note which I wrote when I was sick in answer to some things in various notes of yours. I don't know what it is about but in addition to that I have to say - first that those carpet balls will make but 3 yards of 24 in carpeting. I directed the man to wait a week before proceeding with so small a job.

Second. The "Good Samaritan" has returned to the city & is installed in Dr Gillman's room up stairs with his traps & ready to 'do any thing for any body' whereby he may make a few dollars & have leisure to study fresh water algae. Frey's nose is, I believe, enjoying a considerable accession of size - apparently of erubescable sub-cutaneous cellular tissue - not actually erubescant - on the very tip, or rather terminal plateau.

I think I have now got nearly through my hurry not having had any drain on my time for all this week. I am rejoiced that Dr Gray is coming to town. I hope I may see him. I gather no flowers at all this week nor till next Thursday. By slipping off ~~the~~ a recitation I can make a visit to Kueskern from Thursday till Tuesday. I hope you will set it at about 21 June. If you can, come this way.



College Mon. Morn 5 June 1848

Dear Doctor

There certainly must be, as you suggest, some mistake about that Flora - but it is not so easy to say what. There are here two unopened packages endorsed Flora - complete - Besides these, which have nothing to do with our present matter you sent me two bundles. One endorsed Flora Vol 2 wants Sig. 2. This I believe is new - I see no trace of use. The other I thought till this moment to be entirely plates. It proves to be Vol 1 Text complete plates (proofs) deficient perhaps half a dozen. The third package is from Dr Gray the Vol 2 which was sent you in sheets by mail. You recollect they stopped sending as soon as you returned the last proof but a stray proof in my possession made up the deficiency in the body of the work - No explanations to plates - no index except 4 pages of proof sent me.

I have been going over my Carices on Friday & Sat. I have only about half of them but among the missing ones are some of the most common ones. I have more hopes of understanding the carices than the grasses. Indeed I must go to dissecting the grasses or I shall never know one of them except Cuckris.

A fortnight from to-day closes my course at the Coll. of Ph. When may our visit to K take place? Will you come by N.Y.? Will it be on Thursday? I am looking for our walk from Hoboken to come off one of these days, may not that be in a week or two?

Your note by Mrs. S. brought great joy to me. I knew that the Spirit was dealing with H., but I did not know that even he himself knew what was doing. Yesterday was a joyful day to me. Good Mrs. Browne was there with all her family except her babes & her husband who kept house on the occasion. Not only do I rejoice with H. but I joy also in your joy. I hope other similar opportunities of congratulating you till you have rejoiced over the last of your family.

I am a little embarrassed in selecting illustrations for your first six lectures. I will send a large portion of the whole. More than half I think. As this includes those which I used first it may be all you wish. I will at the next opportunity send a large part of the remainder. I fear very much but I may keep back some that you will want.

Many thoughts occur to me on reading what you say of Prof. Gray. Will there not be an opening for me there? I want a post that I can rise from one which will be in its very nature an apprenticeship. I shall be 36 in August & with strong desires for domestic life & an earnest longing for a home of my own I find myself apparently as far from any rational prospect of settlement as years ago. Am I to circulate in an eddy all my life? I hope not. The fear of it however has troubled me not a little.

Dr Grog expects merely to pass through N.Y. tomorrow. I shall try to meet him at the boat as otherwise I cannot see him, having to lecture at 9.

Mr. Trécul when he started meant only to go to Pa. It seems he changed his mind. He wrote me he would be back the same week.

I have as yet written nothing on the genera. It was on my order of exercises for this morning but Mrs G's coming has led me to put aside my plans. I am really discouraged to see how little I do, and yet I dare not press myself as my health now is. I hope I shall soon be ready for work - say in a week or two. I have not seen the notice of the genera in Silliman nor the Review of the Monnal in the N. American. When must an article be finished to be in season for the next?

Mrs Govey is writing in the other room & I send this (I think) with hers. I send the receipt for the pen.

I wish I had thought before to borrow Burnett's Outlines again. After all there is a great deal that is useful there.

Mrs Govey has finished & I must close

Yours affectionately

J. F. Holton.

Trécul has just called - goes tomorrow to Boston thence to Albany Detroit &c to St L. He does not know what to do with your note to Scholescroft. I told him I could return it to you - I send the accompanying note & the letter itself is too heavy.

Dear Doctor

Wednesday 20 June 1848

you were mistaken
in supposing I had the 'Cholera' for
a fortnight. It was only a week
in all. And during that time I
took but two doses of medicine.

It was only one of those spring
turns to which all are liable
& on which ~~cholera~~ cholera often lays
hold as an occasion for moving
that particular individual rather
than another.

I have been & sent
it over 200 specimens (sent up in
two days) to her for Dr. Drake, in the
land centre Maine. If money
I sent a number of specimens.
I had just begun my first im-
provement of my exchange sys-
tem but had not time to take
advantage of it. Hereafter I
can first write all the labels
on a package at one sitting
& then lay it out. I intend
to make also a package or pile

of duplicates of which I have
but one specimen each. to
make no catalogue of these but
keep them to be looked over &
selected from. I thank you much
for ~~some~~ ^{some} ~~one~~. When you come down
I mean to see whether it is equally
easy to possess myself of some
other Brochures & small parcels
which were desiderata in the
small room, such as ~~Deys~~ ^{Deys} catalogue
&c. I am sorry you are not to
be down so soon. I have been specu-
lating as to the terms on which
I could obtain those two packages
or Elizabeths Pine collections. I have
been waiting for her to discover that
she has already done all she ever
will with them & fact I have
been aware of for about a
year but of which she may
yet have some lingering doubt
which I know not how to remove

Those Books & Lectures are a reality I am sorry to say. They are a vexation to me because the experiments are all they care for & I shall make not a chemist there. in short I am trapped into giving a course of experiments with some explanatory remarks. I have been strongly inclined to bolt & I think I should have done so ere now, were it not your fixed opinion that I have from too few experiments.

I lecture today on Chlorine, performing all the experiments I can think of in Florence flasks. Prof. Ellett is now ^{then} ~~ready~~ with some capital advice. Should I be with you next winter you may hear as much of his new ways as of Prof Hleicocks old ones.

I had made up my mind not to buy the F. N. A till the second volume was completed, on that

point I now hesitate as I began
to think I need it. What shall
I do with that chronic review
of the Genera? It ought to have
a place in the N. American as a
review of Vol 2. I don't like hav-
ing it so long on my hands.

Had Chersony I think never sus-
pected she could extend my term
without a pro-^{per} motive of think.
If no medical bellows must be joking.
The term is too long now. The fault
is elsewhere that's flat. Suppose
the term eleven months long & twenty
lectures a day the course would
not be improved. Eliza's last pro-
clamation is worse than usual. It
would be better I think to make him budge.
I desire very much to take a trip with
you if I can. I will see about your
offer to suit. By six rooms do you
mean single wheels or double? You want
double papers for 12 volumes & single for
specimens. You recommend me to have my
glueing done by my children or executors
even. It may be that delay is better for
me.

Wednesday Mon 21 June '48

Dear Doctor.

I have been hoping to hear from you relative to what I am to do for July & August. I almost to have made up my mind as to July. Dr Gray requested me to call on Whelply of the American Review. I did so. He acceded at once to the admission of my article but insisted that it was not his duty to pay for it. He easily showed me that he could better spend his money on a political article & that M & Co could not do better than have an article inserted where among its readers would be 1500 planters.

I wrote Dr Gray Monday to this effect & yesterday recommenced my article.

I believe I will send you the first of it & in fact I fear I must first & last trouble you with the whole of it either in mass or detail. I hope it will not get mislaid.

As to the Carmine St matter I hear nothing as yet so that your

advice may be in time in that case. Every view I can take of it however leads me to think I ought to seize on the opportunity I should it offer.

At Madame C's I really believe I have secured the good-will of both my classes. This is a good deal if I have really done it. The Botany club took an excursion with me to Fort Lee on Sat. last. We were all highly delighted I with their conduct - they with their trip. We all carried our ~~bot.~~ ~~our~~ Mammals with us, & we used them the more as it was very hot. We found but very few flowers however. I saved nothing but Hamamelis.

I shall be quite lonely when H. is gone. I hope he will enjoy himself I know he will.

Should my article pay I can spare a few more dollars on my herbarium which will tell to great effect in the arrangement of my duplicates. I am creeping over my herbarium having just passed *Rhynchospora* on

my way towards Anemone.

I hope to spend next Sabbath at Singing. My Superintendency will commence on the Sabbath after. By the way the Sup. of Brainard Sch. School figures largely in the last Evangelist. It seems he has not been late in 14 years!

I felt very sorry to hear how you missed Dr Gray on that Monday ride.

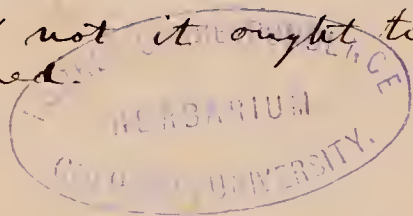
Mrs Torrey missed them too but it was much better. each being in ~~secret~~ calling on the other.

What will you have done with that portrait of DeCandolle?

Willis has been to see me - wants me to spend next winter with him. Will it make every movement of my life a year later if I do?

I heard from a Dr Drake some time since. He sent you some crystallized guano once. He expected you would tell him what it was but you never did. Shall I tell him? A.B. said salt is deliquescent & de composing I fear the specimen

is mined - if not it ought to
be glass-stopped.



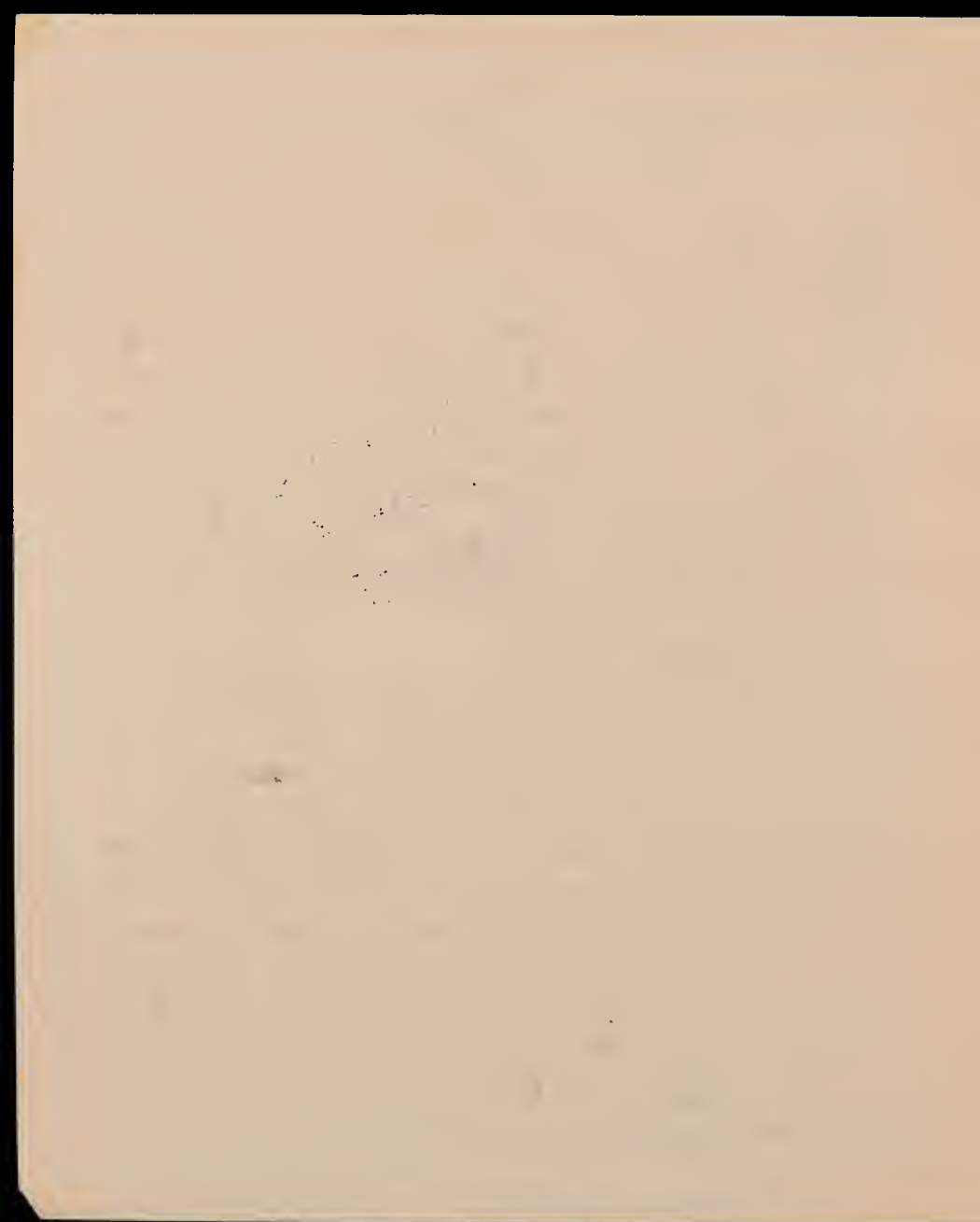
[2. 1848]

Monday morning 28 Sept.

Dear Doctor

I begin my work this dark morning by reporting progress of which I have made but very little & that is soon told. My pile of unarranged plants holds its own like flint. I have promised to let Mrs Mills take out to Leghorn 300 or 400 for which she is to return me native plants. These I take out as I put others in. I first went over all my new acquisitions, writing labels, & studying species a very little, & distributing them into six piles. Of these I have finally arranged from Ranunculaceae to Leguminosae, inclusive. From the same space I have laid out for ~~Mrs~~ Mills 75 specimens. To-day I hope to get to Cornus, but I am so often delayed that it is not much use to hope.

Friends from abroad used up almost all of Saturday & will take most of some day this week. That Sabbath School makes greater drafts on my strength than on my time. It is nearly as hard as preaching -



Young Kniestern has been here
looking for business. His father
is well. The family grow in stature
& I hope in intellect. They wear shoes
& go to school. He took the Genera.
I have been down town once & to
Brooklyn once since you left.
Have not yet touched your minerals.

Mr Browne is unharassed. A
vessel is up for Sweeper. He has
the Bishop's things ready & many others
for other correspondents. I shall be
send all — all but Agard's — or none?

Prof. Tappan has at length given
me his testimonial & a curiosity it
is. I have taken a copy to show you.
I was going to show it to Abbot Mod' C.
Miss Forbes & Miss Green & get others
on the same model but on seeing
how extravagant it was I dared
not show it to any of them.

Who is Prof Täger? He has been making
a little capital, handsomely, in the Tribune.
Will he be a candidate?

When will you be in again?

Respects for Mrs G. & family
Yours L. F. H.

1
Send

2
Gray

3
March

4
exp. prof

5
today afternoon

6
Mollin

7
Come

8
tomorrow

9
morning.

10
Henry

11
gone

12
Philad.

13
Scientific meeting.

14

15
Mileage

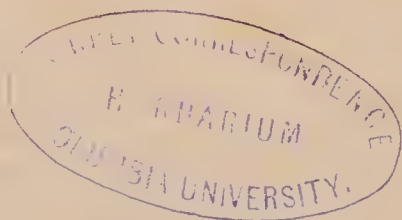
16
here to

17
tonight.

18
affect?

19
John

20
Loney



[c. 1848]

Wednesday Mon

Dear Doctor

I have just finished my final improvement on my system of duplicates. I have been working at it ever since I ~~was~~ clear of Harris & am done just in time as I expect to leave town tomorrow. I may as well give you a brief history of my herbarium. I began it in the beginning of my Soph. year 1832. I changed my size, by your advice in 1838. The plants were arranged alphabetically till 1840 when I adopted the arrangement of Burnett. Strange to say I collected my first duplicates, (for Dr. Mead,) in 1842. The first I kept for myself, were in 1844. About this time I left Burnett's arrangement. In 1844 my herbarium became so bulky that I could only manage it when on shelves like a dairy. It occupied about 100 ft of shelf. In 1846 I never found a plant in my herbarium. All the duplicates I gathered this year I packed up in boxes. In 1847. resorted to genus covers. In 1848 I made cases

or covers for duplicates - numbered them & put the numbers in my catalogue of duplicates. Now I have taken a book of 300 pages (some so with my cases) & on each page have copied the labels of the duplicates in a case. I have further established a pile of plants which I do not want of only one of a species. Of this I make no catalogue any one may take any plant he wishes but it is not accessible to correspondents. I have generally 2 species in a case, & from 2 to 100 specimens of each.

So much self gratification I allow myself on the completion of a long task. All this time I have been hoping to see you, never thinking that this Cholera nonsense would keep you off. I want to see you amazingly - have never been so long from you since I came east. Will you not be at Cambridge Do, I beg you, show yourself. Some

scientific men are not aware
that you are alive. Shall I speak
to Henry about the Curators trip?
Write me a letter that will be at
Prof. Gray's before I am. I am sorry
to be in Cambridge at a time
when I cannot go to Prof. Gray's nor
indeed scarce speak to him but
this once I submit. I have
stopping places enough in Boston.
I expect to leave here at 3 or 4
& spend the night of Friday in Greenwich,
Saturday to Sunday. After Com-
mencement, ^{10 Aug.} I visit a cousin
in Spencer Mass till the Association
meets, thence I go to a friend
in Rochester N.H. So there you have
my plans - but what is more!

Ph I visited the Cholera Hospital
yesterday evening & again this
morning. The impression made on
me was greater than I anticipated
something like fear. I am however
very little concerned about myself.

Everybody here is watching himself. Often slight disorders will stop a man's business, such as he would disregard at another time. I mostly laid by for Sat. & Monday & even took 3 pills. Up to that time my health was capital for some weeks. Last night I was a little nervous & restless. People do not seem to leave the city much this year. Our raisin box holds out nobly, but has lost its prestige of popularity.

Mom. I am likely to get off in fine order. I have swept this morning the little room cleared off the table & put all to rights. Of course the whole table in the large room is covered till packing is over - Love to all your family -
Yours ever J. F. H.

Dear Sir

[c. 1848]

Dear Sir Hastings broke me off just in the wrong place in the other letter and was just about adding in reference to my pecuniary affairs that I could nearly see where every dollar was coming from that I must have till August. My Williamsonburg trips (from 3 PM till night for \$1) will close I think next week. A keen young Jew of 14 comes twice a week & takes a lesson in Chemistry for 50 cts. - I shall see Miss Haines I suppose tonight. I fear

I gave 3 specimens of *Coly canthus* out last time to three ladies to describe - One was absent today I copy the best of the other two reports

"Exogenous shrub, dicotyledonous

"Flower

"Two bracts - a calyx of two whorls of 5 sepals each two whorls of petals 8 exterior - 5 interior - 2 whorls of stamens 8 exterior - 5 interior - anthers long - of 2 cells filaments short & connate with the petals - 3 stamens partly turned to petals Pistle, 8 or 10 carpels - styles connate stigmas distinct ovaries distinct" Would Raf. have founded a new genus on this? All I had said of the plant regarded the gradual passage from ~~petals~~ sepals to petals. 3 others report on *Serracenia* tomorrow. But I chatter too long on this -

Dr. Griscom sent here a book which I have taken the liberty to open. It proves to be Medical Botany by R. Eglesfield Griffith M.D. Dedicated to yourself & Dr. Gray - 300 illustrations copied from Lindley & Burnett &c. Nothing original as I can see. Orders with Lindley's last names & your arrangement - Lindley's allusions being preserved as well as may be.

I did not see Edwin's letter - I am not discouraged by your account of it. I would not expect an instantaneous return of gratitude or conversion though it may return suddenly when it does come, as come it must if the work has been genuine. Please inform Dr. Gray that I am not in correspondence with Woods - never saw the 1st ed. of his book - 2nd is not yet out I believe - I was willing to aid him it is true - I would any man that did not know that he was a quack eliminating a half dozen errors would never make him a rival to Dr. Gray for a moment

Thursday 3 P.M. I have seen Miss Haines - her
school languished in numbers - & they are longer
in finishing their studies than was expected.
No lectures till fall!

I am cautious in expecting what is still
uncertain but of this I felt sure - indeed the
engagement was positive - But she has been
lavish in paying me beyond what I asked
& for beyond what I earned - I do not com-
plain - In all my late calculations I
have ~~even~~ not counted any thing from her
so my previous remarks on my pecuniary
prospects are true or nearly so -

I have just received your note &
the Alga - I thank you

Prof Henry is off again

11/22/22

Dr. J. J. J.

Thursday P.M.

Dear Doctor

I know not at what moment Mrs Dorsey may leave so I will just have a line ready for her. You are surprised at my want of judgement in proposing the bark as a subject of study for a beginner. I proposed it not by any judgement I could form of its ease or difficulty but merely from the fact that I have not been satisfied with any account of its growth which I have read. Jussieu's work leaves the matter in the dark. Both as to the granular bark & the corky portion. Gray does not even inform us I believe that the epidermis is not to be found on old trees. Lindley is if I recollect right even less explicit than either. But I want a subject that is within the compass of my powers on which I may "try my 'prentice hand".

I have a niece of Croon in my class at McChesney. She promises me specimens from Florida & of the Croonia. If I get seeds of it might I not fill up a class in Gyps Genera by watching their germination? I am not sure of them however I will not get them for a long time yet.

I have but 5 more Pharmacy lectures due. I must then undertake something great. At present I spend my little fragments of time on my Carices which I am going over very slowly if not thoroughly. I have written a notice of the Gen- era to-day for the Observer. I am not sure I can make it suit me I am letting it rest till tomorrow to see how it will look. I called on Corey last evening to introduce a friend of mine a high churchman. We had an awkward visit there was no topic in the range of human thought on which we three could converse. I have made out an alphabetical index of the synonyms of carices in the manual a thing much needed. If you need it I will copy it for you.

I had intended to see Prof Gray to-day (at day light) but I felt too tired & as my lecture hour was 9 I could not see him at all. Did he stay at P. that night? I hope to see him on Monday.

I lecture to night for Br Skinner at Carmine St. I fear I shall be embarrassed on sacred themes without notes but I must try it once more before I abandon it as hopeless. I must steal a little time for sermon writing this summer. At Mon. Little thought I when I closed the preceding sentence of what I should next say. It is this. I preached that (Thursday) evening at Carmine St. & after the close I was met by the proposition to supply the

desk during the month of August! I replied that it was impossible, but on reflecting more on the matter it accorded so with my wishes or rather with my necessities that I know not what to say. It seems hardly safe to my health to accept but if I decline may it not be the turning point of my life - may not I have written my last sermon? It has always been my grief that while devoted to sacred studies my support has been invariably derived from labors in secular pursuits. So completely is this true that I have received in all considerably less than \$15 for preaching in all the 9 years since I left the Seminary. Now \$10 a Sabbath is offered me for 4 or 5 Sabbaths. If those weeks be sacredly devoted to Theology & the avails to theological books might it not be a spiritual & intellectual benefit for which it would be worth to risk my health a little? What shall I say?

Nothing new occurs. I saw ^{Prof} Dr Smith yesterday - he was going down to Dr Beck's - says Dr B. has too many advisers - thinks Dr Swett does better - he adheres to one viz J. M. Smith M.D.

What is "Canchalagua" - a Californian plant of rare virtues? They are trying to displace Sarsaparilla with it. *Chironia Chilensis* has borne a name somewhat resembling Canchalagua & has been used for similar purposes. Is *Chironia Chilensis* a native or cultivated in California?

It is 3 weeks I believe since I put a plant into press. Perhaps only a fortnight. I shall put in a *Magnolia macroph.* this morning & may get a few in Williamsburg to-day or West of Hoboken on Monday. Mrs. Torrey's visit has been very pleasant to me, tho' I have not seen her much.

I hope to see Dr Gray on Monday morning, but would be happily disappointed if he should continue with you over the Sabbath as he ought & not come on till Monday.

I hope you will in your next work out definitely a task for me for the coming 6 weeks - Either the review of the Genera or some original investigations to strengthen rather than test my powers, which I feel are as yet incompetent to the work. I hear that Beck has out a new botany closely resembling the Manual. Horperts publish it. Have you seen or heard of it. It is very like Beck if you have not. I fear he has got rope enough now. A little reduction of the price of the Manual may be requisite in this view altho I think it cheap now. I have written this letter with a badly constructed fountain pen which has in no way facilitated my labor or improved its appearance. Being as capricious as an ill bred cow about giving down.

Yours

J. G. Holton.

[c. 1848]

Dear Mom

My Dear mom I have called

in vain for you at the
Bible House. I want you to
take tea with me tomorrow
Wednesday evening. Our cards
is I mean to give you full
sweep at my duplicates for
the first time. Bring all
my plants & papers if con-
venient that you may have
some thing to carry home
your spoils in.

MAR 4-1907

Given by A. M. VAIL:
from the
Crooke Collection

It was rather a mistake
my parting with that too
board so long. I am now
fairly up a tree & can go
no further till I cut more
paper. Nor can your press
be made - (the time fixed for
that is I th. money) without.
I went to the Lyceum chief-
ly to see you last night.

I have been lame ever
since I was at your house.

Dr Torrey is gone to Worces-
ter to investigate the Paine

hoax.

Richard & Huxon will
both I think go to the
Pines

Mr. Willis invites my
friend Leroy, & should he come
in without his wife, to take
up his quarters with him.

I have never seen as
to this reaching you & will
to increase its chances de-
viate from my usual prac-
tice & send it unpaid

Yours ever J. D. Holton.

LIBRARY
NEW YORK
BOTANICAL
GARDEN.

Tuesday PM 21 May 1849

Dear Doctor

What endless obstacles

there must be in the way of a correspondence between Princeton & N.Y.!

Your letter of Sat. is just received - too late for those drawings to benefit you to-morrow. The object of this is to promise that they shall reach you by the early train of Thursday. I shall go down town on purpose to have this off so that you may promise for certain a lecture on Thursday if you

choose. I am sorry I did not get it sooner. I shall not send your Ergot unless you write especially for it. The rest I will make up into a compact roll. I send my drawings of seeds with gears, you will find them of great service. I told you last Monday morning of my new chemical course ^{chep} at M. Hyacinthe Penquet. I hope you have received that letter ere this, tho' you evidently had not when you wrote last. Harris & Co. have at last got a place - Broodw. bet. Dy & Cortland, 3rd floor. They will positively move in a few days & I hope then the

preparations for attention & painting will be ready to make but one job of it.

I hope among the alterations will be one making the wash place & stairs change places. Each would be bespitted by the change especially the washing. Could not the water be led ~~off~~ off into the Great Vault, a "stink-trop" (Torador) being interposed?

I took my plants down last Wednesday & have them now arranged but have not looked at a specimen yet. I went out yesterday, sick, to Hoboken. Brought in *Orchis spect.*, *Barbarts*, *Juglans cinerea*, & *Tamoxix Gallica*.

I have bought for \$4 the reliquie of a dissipated Doctor, brother to Dr Robertson of Greece. I am ashamed of the purchase because I gave so little & so much - more than it is worth to me & much less than the intrinsic value. Don't you want to buy some stoppered bottles - Specie jars - gollipots, blue vitriol, uny. hyd., senna & salts?

Further, by way of spending money

I have bought of Hastings a micro-
scopic copy of Shakespeare 8 vols
48 mo for \$1. So you will soon
find me a literary character no
doubt. These, a hat, an umbrella,
& a psalm book are all the extror-
gances I have run into as yet
since my access of prosperity.

You thank me for the lamp - it
was old H's doing. I could not
get down town that morning.

What color is your Geneva paper -
Must it not be 23 x 15 $\frac{1}{2}$?

I have asked again about filters. "There
has been none here for a year & more
at all at all" says Mrs. Jennings And
I believe she is right. Has not
Gilman or Agassiz got them?

I am now so fixed that I could
make no excursion till the middle
of July. I must come to Princeton
& would like to go with you to
the Pines. What a treat to accom-
pany you there.

When shall I begin to study Grasses?
I know not a Genus & scarce a
species. Of this my disiderata
is sufficient proof.

Indeed I learn but little of any
thing. I have learned one thing however.
It is to blow hydrogen bubbles; con-
nect the pipe by a flexible ~~reservoir~~
tube to a reservoir.

Tell Ross beforehand where to leave
your drawing. Your offer to
pay the express is decidedly cool.
They are here for my use.

Yours in haste J. F. Holton.

[C. 1849] 1

Mr Willis I have gradually
become aware that for some
weeks past your manner has
been constrained to me and
unfriendly. I have been so slow
to ^{discover} ~~find it out~~ from two ^{causes} ~~reasons~~
First I was unwell and at-
tributed the seeming change
to ^{my} ~~my~~ fancy. Again I knew
you ^{must be} ~~were~~ well aware that
without co-operation between
us, such as friends only can
have, your interests must

suffer. It was not till yesterday that a new explanation occurred to me.

You may recollect that before we engaged I expressed a wish that it were not ~~so~~ necessary for you to put yourself so entirely in the power of those you employ. By refusing to leave till the expiration of the engagement a malicious or enraged assistant might

drive you to almost any terms. You might well therefore prefer that a proposition of separation should come from the other party even where you expect ~~had~~ no reason to fear ~~had no ground~~ for such a course.

I write now under the supposition that for weeks you have desired such a proposition from me. It originates, ^{really then} not with me but you. I can

'bear a friends infirmities.'
Did I ^{suppose} ~~suspect~~ this heavy to
be natural to you, it would
not in ten years drive me to
ask to leave you. I do it now
to please you.

The pecuniary
terms ~~shall~~ be easily arranged
if the account current between
us be once satisfactorily ~~settled~~
and our mutual relations
~~satisfactorily~~ ^{agreed upon} adjusted Both
of course must sacrifice
some - I will take the greater

burden because it naturally⁵
falls upon me. Mine chief-
ly must be the task of two
removols in six months.

I return to the city too
late to procure the places
~~left~~ in schools, which are
eng^{Teacher's} age, by the first of this
month. I lose the \$75 I was
to receive from Mr Rich-
ardson for lectures all
of which I had deferred for
winter & spring. I land
in N York without employ-

ment. Yours will be the
task of supplying my
place. You will I suppose
suffer me to select for
my removal any time ~~which~~
during your vacation which
will best suit such ar-
rangements as I can make
at my future boarding place.
And while packing I should
expect from you the same
kind hospilities which
I have ever enjoyed under

your roof. And I hope⁷
you will not think it
too much to take upon
yourself the expense of the
removal as for as the
wharf at N York - inclu-
ding, if it be necessary,
the expense of a journey
there & back to engage a
place for myself before moving.

As to other matters if we
cannot be friends we must
abstain from every hos-
tile act. in our botained friend.

ship & relations need under-
go no change, what we have
seen of each others faults, or
defects in teaching or govern-
ing must be passed over in
silence even with our most
intimate friends. The cause
we will assign for our sep-
aration shall be a true one
the inadequacy of my health
to the task. As for the re-
mainder of the session I
desire to be exempted entire-
ly from government except

in relation to my own classes
and also from all attendance
in the school-room, our design
of separating being however
kept from the boys till 1 Oct.
I, on the other hand, will en-
gage to spare no possible
pains to put my classes
in as good order for exam-
ination as possible and
in all respects treat your
interests in the school as
you would wish.

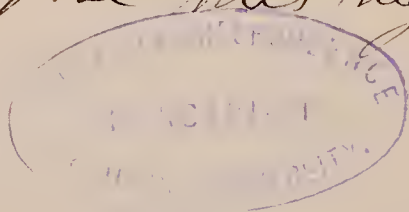
I trust that on none of
these points there will arise
any difficulty between us
and our separation, if in-
evitable will be without
bitterness.

Should there be
any points on which this
paper does not fully meet
your ^{views} ~~and~~ I beg you to
return it to me with
the emendations proposed
and I will not be wanting
in a spirit of concession

On the other hand should
it meet your entire and
hearty assent I will try
faithfully conscientiously
to carry it out.

— I have thus descended
to minute particulars that
you may feel assured that
I will not throw the slight-
est obstacle in the way of
our separation if you
desire it

I have altered the
preceding draft so as to
be an exact copy of the
paper - so that if a
copy should be wanted
for any purpose this may
answer



York 10 July 1850

Dear Doctor. I returned from
Freehold on Monday night. I
hoped to find a letter from
you but found none. We had
a more pleasant & less prof-
itable time than I expected.
Leroy & his family started on
Tuesday with me but were
too late for the boat. I went
on alone & no others came
except Leroy next day. Willis'
kindness knew no bounds; but
he was unable to go with us
to Siquon. Here but for Mr Rowell's
kindness I should have been
an inmate of a not very pleas-
ant Tavern - No offer of any kind
was made at Dr K's. The Dr did
what he could for us & we
botanized together all the
time we could spare & he
helped us take care of our
plants at his house.

He is in a much poorer re-
gion than he was. ~~Willet~~^{Henry} & I
resolved to help him fill
the lacuna in his 25 sets
of Gramma & Cyb. hoping that
he might next year get them
ready to sell. He has been
throwing away his time on
an immense hen establish-
ment which would have
succeeded if the hens had
laid enough.

We brought off a
good supply of *Scirpus Olneyi*.
of "Black grass" and a *Coloste-*
gia that we could not make
out.

I found waiting for me
a letter from home. My Uncle
who was a father to me in
boyhood is very sick & cannot
live the summer out. My
Father too is very old & I
fear may not live another

year. He desires too see me very much. My business there demands my attention. My affairs may be more complicated by my Uncle's death.

All things considered, nothing ought to stop me but some consideration of the most permanent nature - such as the N.C. affair. If this will be prejudiced by my going I ought to stay but not otherwise. I write this ^{note} expressly to ascertain your opinion on this point.

It seems to me that it will make no difference. I can have it telegraphed on to me at Quincy & put so that it will reach me. No man would be expected to be on the ground the week after this election.

I may even have more time
than usual & as part of my
library is in Ill, & the books
a little scattered perhaps, the
pending election, were I sure
of succeeding would be a fur-
ther argument for going.

I wait your decision before
answering the letter.

Brackenridge advanced
a little at Freehold but
not greatly - as I feared
now I mean to have a little
spell of hard work. My last
bot. lecture is to-day

Respects for Mrs D & the
family particularly H. & M
whom I most desire to see
after so long an absence.

Yours Truly
J. P. Holton

New York July 12 1830

Dear Doctor

Your acceptable notes of the 8th - 11th are before me. Allow me first to say in reference to a previous one that I had no part in sending that letter to Mrs. Snow which was so long delayed.

I find we can do nothing till we can settle our Terminology. Unfortunately I have no good model and have drawn up the accompanying paper at random.

Will you please correct it into a practicable shape that we can nail to the mast.

I don't see why when once settled it may not ~~be~~ developed into a description or definition of terms. I rather would to consider the Stipes as a part of the

word - I find your description of Polygamia procreans page 21 utterly beyond my comprehension

whether I take the English
the Latin or both

I am sorry I went to Mon-
mouth now that I have deci-
ded to go West for I think it
very probable that a visit
to Princeton will be inevita-
ble & it must be so short.
Had I not to go West I hoped
to spend a fortnight with you
perhaps even more! At this
time Willis had leisure &
promised to go with me to
Squon. Most of our botanising
was in the pines.

I don't understand Sporangium
medial - is it that the Sori
occupy the center of a lacuna
or a segment? Sori in linea
media dispositi?

I am glad Short has got rich.
Give my respects to Quaker
Bridge & bring back any thing
rare if you please

I scarcely thought a hiatus possible - there is a large space without a new species. is not that all?

I fear lest I fail to revise this much for Pat. but I will send it back by him & if it comes back next week with the Terminology settled I will put it straight through. Yesterday I swept out 2 rooms at College before my ^{Gherard} ~~esset~~ & got through Delicium! I am determined to push at the library till I have carried the Catalogue half through & then give all the rest of my time to preparing for my start.

But it is after 5 and my Lib. work is not even begun! x

6 P.M. Well I have spent just an hour on ~~it~~ ^{the form} & I do not regret it. I only wish I had more time - spare. I have made all my cor.

x I then gave it up entirely & went to the Form

rections in pencil so that you
can rub them off; except one
grammatical slip which will not
need rubbing off. I shall now wait
till the ^{September} ~~November~~ comes back
before advancing on the other.

closed my last bot. bet yes-
terday. For my course I got \$9 per
agreement - Mr Hall of whom I asked
nothing, having invited his daughter
viz as your friend, gave me an
X including pay for a Gray.

I think of starting West on Monday
27 July

Sat Mon. My determined start
has given me numerous letters
to write which I have done in
great haste; they are hardly
legible you see.

Remember me to your family

Ever yours

J. F. W.

Lebronz - For Thom 19 Jul. 1850

Dear Doctor Furray

By your note last night I learned for the first time that I might write with the expectation of the letter finding you at Princeton; as you had informed me that you would be absent nearly all this week. This & Pat's failure to take that package, have been the causes of all this trouble. Fortunately I have sent nothing to Philada for you. I hope you found that proof at the Office when you mailed your last. I corrected it partly that night, ^{I received it} & partly next day & dropped it into the Box at Dupuy's where I went expressly, as I had no stamps & they do not sell them at the nearest box, & I would not trust it without. ~~There must have~~ ^{There must have} been some delay that I know not of as I ^{also} infer by your speaking of it as sent "some days ago" the day after I got it but Mr G. says he gave it to me the day it came which was Tuesday four days & 16 hours ago now. But I am very much troubled about what Pat should have taken & now I know what to do I have broken it open & taken out the letter & the paper on Terminology & send them with this & hope an immediate answer as I feel all unsettled; & cannot see how I did a thing before settling this. By the way I express no preference for one term rather than another (Sporangia, for instance, or Theca) only I want to see the thing pinned fast somewhere. Lacinia I am sure is correct, not for a cleft torn in a substance, but for a ^{narrow shred} ~~shred~~ between two clefts. My distinction between Lacinia & Segmentum, between Costula & Vena may not be improved I think by your knowledge of ~~them~~. In fact there is

not a thing there that I regard as definitively settled.

I hope you will make it a model for future phytophans.

I am sorry our plans seem to clash next week; I had been hoping to go to Princeton on Wednesday night & leave on Friday morn, staying one whole day. I am straining every nerve to get through the letter for Hastings. I am spending I fear too much time on my letters, but I am losing them better.

The past (current) gr., for the first time in N York, my expenses have exceeded my income. It will not be likely to do so again. ~~I shall~~ I must draw as much as \$30 from my funds, if not more.

There is not a day in which some past kindness from Mr Corey ^{does not} turn up & fill me with sad thoughts. Why should so good a man be so severe towards one who has always loved him & never offended in aught?

I am anxious to hear from Dr Hunter.

I would like to look at that pumice stone process for S in Chem Gaz. 1 Apr 1848 I hope it is at the College. Could Pt sponge or black be substituted for oxydizing the S (as in vinegar) to advantage?

Willis will be with me just P.M. My last lesson is Tues. Hall.

I am very sorry for the trouble that that delay of proof gave you but I think it was no fault of ~~the~~ or any one here -

Yours ever J D Holton -

19 Nov 1850
To Prof Short Dear Sir The liberal proposal
of yourself & brother to devote \$10,000
to a Botanical exploration of W. Africa
has occupied my thoughts for some
time. Two of my former pupils & two
other of my personal friends have gone
there of whom two I believe still
survive. Another friend of mine lived
there some years. All these were Mis-
sionaries laboring in a cause worthy
of laying down life for. Botany will
not justify such risks nor, I hope,
will it require so much.

Several motives combine to lead
me to enquire more particularly
about your plans. Among others
I have an intense desire to see a
tropical flora. I have been in all
the states of the Union except the
Carolinas Ga. Fla. Ala. Tex. & California.
None of these journeys was ostensibly for
the sake of Botany, but the want of means
has alone prevented my visiting the W. Indies
for that purpose alone.

Again I am accomplishing less than a man ought to desire. Here I am in a state of pupillage as it were though never could it be more pleasant. But I think it has lasted too long & still I am only following the round of other men's labors.

Could your African expedition materially improve my pecuniary circumstances & give me a vantage ground among botanists without too much risk of life I would be glad to engage in it. No ones ~~life~~^{hopes} & comfort depend on my life. Those who were dearest to me have "passed the flood." My father, more than 80, expects never to see me again, nor do I think he will more than once. While I hope my loss would be widely regretted no one would grieve so intensely for me as for a brother or son stricken down in their midst.

Our family is large but I am so separated from them that

my loss would be less felt.
I hope too I might be of some service
to my Missionary brethren and that
would be worth some risk.

Could I go in a National vessel,
touch only at Liberia without
spending a night on shore, take
in there from 4 to 6 acclimated
assistants, land at the Goboorn,
proceed immediately towards the
height of land in the bend of
the river, taking with me two or
three missionary pupils from the
interior tribes as guides, interpre-
ters & pupils, going only so far as
I could & keep up my line of
communication with my base of
operations. At the Goboorn I think
much might be accomplished
without too much exposure. Some
able Peterkin too might be
trained in the while to carry on
the exploration in that fertile

region beyond any thing that Euro-
peans can ever hope to accom-
plish.

In such a tropical expedition
I should expect to perform no
physical labor further than to
walk & indicate the plants to
be gathered devoting a considerable
proportion of my time to the labors
of the Microscope. Nor would I consent
to make my herbORIZATION one contin-
ued journey. A thorough exploration
of 3 or 4 good localities spending
two or three weeks in each would
incure for less danger & yield triple
the number of specimens & I think
even more species.

Lastly I shall take no step in the
matter contrary to the advice of my
true & best friend Dr Torrey through
whom I make this communication
to you, and by whose advice I shall
ultimately be guided.

Yours

J. F. Holton

W & P. S. Th. Moore [c. 1880]

Dr Sir

Mrs H. says her spine is again becoming affected. Mr H. has scalded both his feet. He thinks drawing hurts her wishes to give it up for the present. I told E. expressly that if he ventured on that plant without your seeing it it was at his own risk. Your direction to me was: 'Please get it, for E is in a hurry for it'. you did not tell me what to do with it & I told him so. I had no idea he would venture on more than branches & foliage. He was competent to estimate the risk & has no one to blame.

No poor unions were to be had - They assured me they would not differ mechanically from iron.

As to the report Prof. G. will have the stuff in his own hands. Knowing one will not be affected by it - so of the vulgar will be favorably impressed to one that is not - the justice of course.

I think the quasi censure might be so worded as not to injure Prof. G's reputation & at once commend the Nat Syst & help sell the book. On the whole matter I rely entirely on your judgement & taste; I know you would spare no pains to give the book a prestige. I hope yet to see its 10 edition! Let me hope the report will be short as possible. At heart I approve the trifacial analysis as an expedient. I fear I may yet be obliged to use it.

Grecs plants. - "Mea culpa mea maxima culpa". The ~~composed~~ bundle was awkward - I did nothing to either of its elements - I ~~had~~ curved the lozen slightly. I left it in the express wagon near City Hall & went down to the office before it was off - explained the "weak side" of the affair & received assurances of its safety which I was a fool to trust to.

Previous to your last remission you had an outstanding balance in my hands for general purposes of \$ 0.15

Remission

3.00

3.15

Deduct coal & door handle

4.15

Balance

-1.00

You left the liston full of water
a slight scum covers its surface
shall I empty it?

I have just finished my first draft
of my introduction (or inaugural in
reality) were you to see it I should
be ashamed to have you know how
much labor it has cost me. I am
sorry the coil leaks.

Yours in haste

J. F. Holton -
Respects to Mrs. J. & Thanks to E. for
the run of her plants - doubt whether
I shall avail myself of it

Dr Henry from J. L. H.

Friday morning [c. 1850]

My dear friend

I have just finished
my brief duplicate statement of
which you spoke. There are
few persons besides yourself, and
Mr Carey for whom I would take
so much pains to exonerate myself
from a charge which time would
show to be groundless.

You know I have not done this
in any way to retain your good
opinion for you have seen too
much of me to suspect for a
moment that I could return all
Mr Carey's kindness in looking over
plants in my herbarium & solving dif-
ficulties, by an attempt to divert
to myself plants designed for him.
You know too that Mr Carey would have
cheerfully given me any of Dr Chittenden's
plants which he already had in his
herbarium & that no dishonorable course
could have given me more plants

or in better order than I could
have obtained from quiet expectations.
You can see too that my intrigue
must have been as foolish in its
execution as in its inception,
being betrayed by myself, entirely
without necessity to the last
person to whom I would have
breathed on the subject.

I know too that you never
thought me a trader in plants.
True I never have asked plants
without offering a return, but
on the other hand I have never asked
a return & am incapable of doing so.
I do confess that I have taken numer-
al pains to make my duplicates
accessible to my friends & more
than I would have done but
for a hope that my own herbar-
ium would be benefitted by my
labor but I should be too
happy to let me plant

for every five I give away.

Mr Brown and Mr DeKey will tell you that I do not get one for ten that I let them have but still I give them for the mere pleasure of giving. I think you too may even recollect my urging on you a unique which you had not, because it would be of more importance in your history than in mine.

But I need say no more I shall not forever forfeit Mr Coeys esteem. Even should he think my conduct in this point inexplicable to the last, he must see at length that the interpretation he puts upon it is totally inconsistent with the context. Once more specimens are but the subjects of history not its final objects. The true

botanist & does not value them
so highly as the Scientist may.
I have early been taught & this
inordinate love for them & I
have sometimes shown it by too
earnestly seeking them. Hæc mea
mea culpa. I will not deny it nor
extenuate it. But I am sorry for it
& I hope I shall outgrow it.

Lastly I beg you to assure Mr
Chapman that he could hope to have
no course more acceptable to
me than he has taken in sending
the plants first to Mr Carey rather
than bring out some for me at
hazard. Every plant that has been
under Mr Carey's eye acquires addition-
al value to me. I only regret
the labor imposed on Mr Carey
& the unforeseen circumstances
arising from the affair.

Yours ever J. D. Wotton.

(Please return this. J. T.)

Uxbridge - Sat. Noon

[c. 1930]

Dear Dr Murray

I received your letter
on Tuesday on my return from
Leyton where I preached to a
certain very worthy & intelligent
audience - I have been home & from
Thursday absolutely landed up with
an outrageous cold. To day I
am driven out by starvation -
I have done all that could be done
in doors - Brackenridge included
Page 3 & all the rest lies rolled
^{up} on Elizabeth's table - Your Grog
(^{was}) is at the College - I can work off
that Brack. (in the style I do)
with great rapidity. Send me
a dozen quires if you will but

I want some criticism on what
I have done. My luggage has
prevented my taking up your
tickets - I mean to do it Mon-
day A.M. so as to remit by
Eliza. The Medol I have not (for
the long excuse) been able to
attend to.

I go to ~~Freehold~~ on the
2 July & leave on Monday after-
noon & one or 2 others go.
Can't you come down? It
would gratify us all very much.
My plans for the summer are
yet unsettled & must be for
a week or two.

Miss Graham says Maj L -
has some plants for you

from Holsted - I will bore
my ^{this afternoon} ~~cave~~, so that I can move
my plants into it, I. v.

The way I have got out is
by cutting a hole in my
boat - I am in haste
& fear this is not worth
your trouble -

Forster - Agassiz's persecutor
is in town - He called on me
I was stiff but courteous - He
went to Browne - who abso-
lutely refused him a word
of information or even civil
treatment giving his treatment
of A. as a reason - I candid-

ly told him I approved of
B's course & that it was but
a sample of what he must
expect from every scientific
man from Portland to Charles-
ton if he did not withdraw
that suit. Severe as I was
he seemed to think it kind-
ness to what he had met.

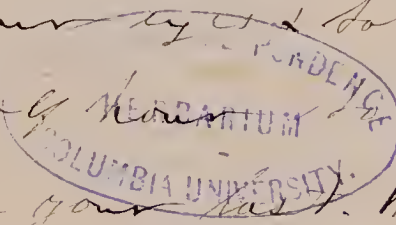
Yours in haste

J. G. Hathorn

I hope you can come to
Freehold by Wed- evening 3 July
at forthest —

I. N. H. Le 1852

Dear Doctor

I, rich. up on
of my ubiquitous, views
of ~~the~~ hope (thatful I
fear to your eye and take
a spare bag ~~hours~~  ~~acknowledge your~~ What
changes have two months
brought about in your
family! The old doll which
Henry is so soon to leave
will soon be no more The
home either of you or of
him.

My dear Sir you will
know that few persons live
in whose pecuniary interest
I take a deeper welfare
than in yours. Allow me
to hope then that the
ballancing of your ac-
count with the old place
will show a handsome ~~off~~
item on the "profit" side.
It ought to if the repairs
have not cost you too much.
But knowing the capacity of

carpenters I have my fears.
Have you yet engaged a
house in N.Y. yet. I hope
you will seek one that
will not hold many guests.
They are an unprofitable
kind of cattle - more trouble-
some than pigs & less prof-
itable than a surplus
of cats & dogs. Now in this
I say nothing against real
friends - sava avis in
terris. May you never be

without time to enjoy
them and as for space I know
they require but little.

I do not believe I oversolve
money but I know that it is
essential to happiness that
the outgoes should never
exceed the income. In this
Dickens has expressed my
mind exactly. But I had
not thought of running into
this homily.

I did not think I
could find time to
scribble over more paper
when I began or I would
have taken a larger sheet.

I finished, ^{this morning,}
reviewing my experience
& look back upon the whole
achievement (including
grasses) with some sat-
isfaction. I have now
ready for distribution

48 species of Carex, 42 other

Euphoracea & and 56 Grasses .
in all 146 Species in the
two orders. I should
like to thin off my du-
plicates by putting up
some sets & sending to
Europe hoping if possible
to get Asiatic Australian
African or S. American
plants in return.

My eyes have been used
too much in the night
and I am now obliged

to spare them. In fact
I do not read at night.
I am otherwise in excel-
lent health.

I think an M.D.
might be of essential ser-
vice in getting me out
my stomach quod if it
could only be arrived at
by fair means. It might
easily be accomplished at
13th St but I would pre-
fer it from Crosby St

to any other school in
the world.

You may depend
on my promptly doing
all you recommend and,
if need be, getting off a quire
of letters next week.

I hope to hear from
you by return of mail.

Yours truly J. P. Holton

My best respects to your
family —

[c. 1850]

Thursday morn

My dear kind friend

I will just drop you
a line to let you know what
I am doing - I have got all
my plants into covers - Genera
of 3 or more species in
covers with their names
on - all plants between one
such genus & the next in
one cover with its back
turned the other way which
equalises the fascicle at
both edges.

I exploded one of your
test tubes yesterday making
two or three small blisters on
my left hand with fused
Nitrate of Potassa. This is all
my breakage except a piece
of glass which will be replaced
this week.

I have soldered some of the
holes in that tin Pneumatic
trough - but not well.

I have removed your mic-
roscope* to a less exposed sit-
uation in the case next

* I believe I have divided this word right

the electrical machine), &
have appropriated the table
on which it stood to my own
use till you return or H. shall
want it. Mr Stewart has
sent half a laboratory full of
carboys. Shall Mr Knox put
them down cellar? There are
only 4 after all - but so large.
Can you direct me to make
some caustic Potassa or Soda
or rectify some Alcohol for
you while I have leisure
a nice fire? or any thing else.

Yours ever I. F. Holton.

Long & Co

[c. 1850]

Ms. P. M. Library

Dear Doctor

Hastings has that
Texan matter in hand and
nearly completed. He will do
as you suggest.

I lack about an hour
of being square up to the
Cyperaceae & Graminae and
a much dreaded job they
will be. They may take me a
month. Now I think of it

it will be all but impos-
sible to do them either
at the Coll of Pharmacy where
the Storrs seem to exercise
an adverse influence or
at my new rooms where
I shall have much less space.
Indeed I shall need all the
table room I ever had in
Crosby St. Nothing hinders
my going there but the pres-
ent occupation of the rooms
and your consent. You

see at once that it would
be impossible for me to do
anything there before the
spring clearing, which I hoped
would have been ere this.
How long will Mr Wurts be
likely to stay there? I hope
by all means I can get in
by the close of next week
if possible. I shall work
up all the crypts before at-
tacking my great task.

It seems that I am

not likely to undertake
the Catalogue - tho' the Com.
have not yet reported against
it. I have now no work
for May & June. What do
you think of a book for
beginners, for children?
I think it is wanted. I think
I could do it. Will it pay?

Are you going to do all
that translating yourself

Yours truly

J. F. A.

[c. 1850]

Friday evening.

Dear Doctor

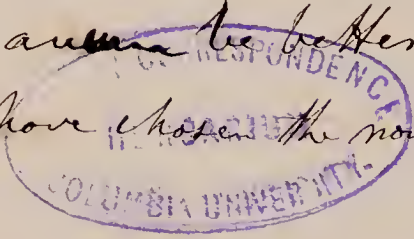
I have concluded to hurry off my letter at last at a moments warning as I am now going down town & can add nothing tomorrow. I have gone over my *Caries* as far as *C. aurea*, but not thoroughly. I cannot satisfy myself on them. I thank you for Duckermans letter. You sent but one before.

I would much rather have
one from Gray. I said
nothing about your time of
payment ^{for genus covers} as they would not
expect pay before delivery. I
expect Leroy tonight. We go
to the Pines to spend the
day tomorrow. I do no field
work this year as a general
thing. I fear I shall collect
no grasses. Mr Willis will be
up at the time I said. I am
well as are our family.

Am I right in writing Prof Steyer
through Gen. If not please suppress
& return the enclosed Court Rpt.

With this. You seem to
have written it for a new
genus. When reduced to a
subgenus ought not the
Suffrutex *coliformis* to
have been ~~stricken~~ placed
under the species and *hab-*
itu *transeria* to have been
stricken out? I do not
understand *squamis* (*mus-*
lucris? *base lanceolata*
breve-spinosis - What is a
broad lanceolate base?

Sarcodes. Is not this an
adjective? Should not Sarco-
chortus, Sarcocloe or, (if it
might be made a pot-herb)
Sarcholach ~~anum~~ be better?
Or why not have chosen the noun
Sarcosis?



[C. 1850]

Thursday evening
Dear Doctor

I find a few
minutes now on my hands with
out any special employment.
I find an old envelope with
Mrs G's name on it which
I have never sent. I find
I have about matter enough
to fill out this little sheet
to you though I cannot think
of any thing to write Mrs G.
All things considered I will
send this in Hastings next
so that it will cost you just

I regret to say I can find nothing of those
about we know of at the City top there.

its worth-nothing. In re-
vising my herbarium I have
got down to Veratrum. With
those Wickström plants I
for the first time intro-
duced insects into my col-
lection; I began this week
for the first time to poison
them. I take a bit of glass
tube drawn fine at the
lower end, When it stands
in the bottle it partly fills.
I take it out & the fluid
is managed to admiration.

Griseb. has reappeared.
He cannot speak 10 words of
English. For want of an
atlas I cannot exactly make
out his route. He left
Bent's fort on the right,
also, I think the Comanche
country. Saw Presidio de
Rio Grande & Lindheimer
but not Wright, sailed
from Port La Vaca to N.O. &
came by land. Nowy sent
all his plants to Paris. He
starts soon for California

via Cincinnati Sunday, &
Oregon, to return Via Santa
Fe & Texas. I was just too late
to send this little strip of map
paper by Eliza. Can't we do
any thing about Herbarium paper?
I guess that Leroy, Richard &
I can make out \$50 between us.

Starr annoys me less; he only
burns my cool charcoal & al-
cohol, uses my towels soap
& water and some such little
matters. I may study grasses
this spring more thoroughly than before.
Yours J. F. H.

Friday P.M.

[c. 1850]

Dear Sir

A gentleman has left a letter here for you which falls short in weight. I add a line or two tho' I have nothing particular to say altho both of my previous notes were broken off by the sudden departure of the bearers.

I have had a hard week of it having lectured 4 times & to-day feel used up (confected). Many of my class leave after the next lecture as a quarter then ends. I have kept steadily at the main point-structure of flowers & fruits only I have taken a flying glance at remarkable ~~the~~ plants in all orders up to Anacardiaceae - noticing ~~only~~ the ^{only} structure of Ranunc, Mol, & Concif.
Tomorrow I intend to visit Durham Survey

with Seligman. My only purpose is to bring plants for Monday's ^{lecture} study & for an analytic exercise to be written after on one plant each. I cannot however lose the opportunity of filling my press which has lain idle all the spring. I spent one lecture this week on anatomy & another on the stem & root.

My last Willbrounburg lesson comes Monday. The family move to Sing Sing on Wednesday.

My Jew chemist has arrived at organic chemistry & stopped. Seven more lectures completes all the instruction I expect to give till September.

If I pay entirely a debt ^{in Illinois} due one month since (\$39.82) I shall have about \$7 left for

subsistence—my wardrobe being now in a complete, but not high, state of order. I have been in debt all the spring and am just extricating myself. Had my earnings this year been only \$20 more I should be a comparatively independent man.

But if I can rely on you for employment even to the amount of \$~~10~~⁵ I will pay that debt entirely as it will be quite troublesome to make two payments at that distance. As soon as my last lecture is off my mind I will make a vigorous effort to pick up some small job. Now I feel as if next years success hung on those seven remaining lectures and I must put the whole of my strength into them—which by the way is small this week.

I saw Schaeffer for the first time
to day - He expects to be elected on
the 20th inst - Monday week. & to
have \$500 appropriated for apparatus.
I had one call from Eliza & M. Had
they taken counsel from my evil
genius when to find me in the
worst possible plight they could
not have hit better - It was my
day for putting my room to rights
but it had been necessarily omitted
to finish a drawing that I must
use that day - I had worked away
almost just as I rose till my
pupil unexpectedly caught me
& he had not left when they came.
I was very glad to see them never-
theless. Will you give me a little
more clue, if possible, to Mrs. Brooks
who has your Gray's text book?
Shall we not see you soon
Yours J. F. H.

Freehold 7 July 1851

Dear Doctor Recollect-
ing that I have some enclosure
I have curtailed my sheet
so as to barely bring the dobe
on the right page. I have had
a broken knee for the last
month. On my Xerophyllum ex-
pedition I seriously injured
my knee and till to-day I have been
a cripple. I heard all my recita-
tions - wrote what I must but
exchanged Botany for general
reading & History. It has made
a serious break in my Grammol-
ogy just where I concluded that
Portia cyrenoides & *polystocka*
are either 4 species or one.
I expect to resume tomorrow.

My lameness spoilt a visit to
N.Y. also. Finding I could not
commute, after seeing Browne
& spending a night with my

Nephew I rode to the Sta-
tion & went up to see Leroy.
I spent the Sabbath there &
on Monday came down - did
the business I came to town
for and with great difficul-
ty got off. I don't admire your
criticism of my Pendulum ar-
ticle - It was not written for
Botanists, & I could not expect
you to take the pains with it
necessary to understand it.

I am anxious about a cap
to a jar I broke & two stop
cocks of Mr Brownes that I
left in the Laboratory. I think
Smith thought them abandon-
ed & possessed them. I have
written him & got no answer
I could not get to the College
when I was in last week, so
that I know not whether they
have yet been turned up.

But my main object at
this time is to write about
genus-holders. Those will
not do - they are too small
though in other respects
admirable. He will make
some more for us if we
will take 10 reams. I think
they will cost us about \$6.50
I want two reams - Leroy
one. I think you want the
rest. I would upon a pinch
take 2½ Leroy 1½ I think - I am
writing to him. Leroy may
persuade Richard to take half
a ream which is the most
we can hope to take off
your hands. So to make the
enterprise carry you really
must take 5½ and as it
is to be exactly made & cut
to suit you I hope you
will not hesitate. I have
sold to Willis all my present

holders so that mine will
be uniform. Otherwise I could
have done very well with
half a ream. A good stiff
set of holders will improve
your ~~herbarium~~ immensely
& save your plants from
injury. Nothing ever did so
much for mine as those coarse
ones did. I am more & more
satisfied that our pages are
of the right size. Very few
plants need larger ones & our
specimens of such plants
generally come to us reduced
down to our size or smaller.
Should we change our size
it would be found 10 years hence
that not 1 per cent. of our actual
specimens needed the enlarge-
ment while the bulk-weight
& clumsiness of the large pages
would counterbalance all the

gain leaving us the expense
of the change & an infinity
of trouble & plants ruined in
detaching from their present
sheets all for nothing & worse
than nothing. The labor
too would be immense. Most
of your glued plants could
better be replaced than chan-
ged & your new specimens
would rarely exceed the old.
Look at *Elatine-Plantago pusilla*
Schizaea & several thousands no
larger - see how they would
be ranged on the very edges
of the enlarged sheets to keep
them up even with the centres!
If you have no inducement to
enlarge & you absolutely can-
not - positively never will
even if you attempt it.
The new genus holders
will release from your
herbarium a large mass of

P.S. Can I ever get your amended copy of your run for a little while.
I have no copy of it reach now.

paper which you will find
very useful for species &
for other purposes. I hope
to obtain your assent to
the order at once

Another errand I have
done. You will see in
the Commercial an advertisement
of ours. Will you try to slip
an editorial - only a very
brief one into their columns
for us? I have made no
attempt. To induce you
to do it at this very sitting
for no time is to be lost
I enclose the envelope so
that you have but to scribble
it off on the first bit of
paper that lays near you &
it will be off in the next
mail. I do this at no time
is to be lost. I have bored
you longer than I expected
as you well. Yours J. D. Holton

Free cold 6 July 1857

Dear Mr. Loring I had no time
when I sent back the letter from
Luckemou. Now as Mr Willis
is going tomorrow I must con-
trive to send you a line.

For myself I have not
much to write. Our Satur-
day's trip brought us nothing
important. By the way the
cause of Leroy's non-appear-
ance was a sad one - the
failure of his employer. I
fear he loses considerably
besides being thrown out
of business. If you build
I think you could use him
to the saving to yourself of
a few hundreds. He has been
employed in superintending
& paying off workmen on
buildings ever since he left
the Bible house and by the

same man under whom
he was there employed.

But I hope you may
yet avoid the necessity
of building, as ready made
houses boats & coats are
always considerably cheaper
than those made to order.

But if you build you can-
not have a better counsel-
lor than herox. I think
too you might like the
neighborhood where he
now lives, (Lubby Hook).

Mrs Torrey told me in 1839
that she would like a house
there. There is a Pres. Church
there & a good pastor, son
in-law of a deceased capitol-
ist named Thompson whose
residence was there.

We intend going to Squam
next Tuesday with the
whole school to be gone

one night. I have now
got in my caries to
C. anceps. Grays. Horns &c.
I have laid aside my mic-
roscope (I divided that word
so on purpose) & do not read
the descriptions. I only
look at the plants.

I am going to send you
by Mr. W. one species of *Carex*
& perhaps a grass or two
about which I doubt. If
I can get answers by him
so much the better. I do
not now work so hard
as I did.

Barnop Dubuison & Holl
is that the firm? Have not
answered my letter, it
unless it be to you.

I send again those notes
you sent me. If they are
of no use to you Mr. Willis
will bring them back so

that if I might wish to
refer to them again I could.
I am sorry I have not
Dorlingtonia & Coleogyne by
me, if they were copies
merely.

I hope by all means
the "Chloris"s not the Fend-
ler papers will be your
model. Your paper is
in strict analogy with
the Chloris I understood.
Mr Baird surely will con-
cede this point.

One more item - When
am I to hear more from
that African Expedition?
Have you written Dr Short?
I am persuaded you can
reach the interior safely
from the Gaboon.

Yours truly J. Bolton
P.S. In my moderation I send
but one grass and one Cory.

1857
New York 15 Dec 1857

Dear Dr Gray, Did you ever realize
what it was to be the owner of
an Elephant? Just fancy one,
full-grown, looking to be stabled
in your greenhouse, to pop out of
some corner of a S. African package
of plants & you will conceive the
mingled admiration & dismay with
which I looked at that long array
of Ericas - 166 in number. After
recovery from my stupefaction
I took D.C. & made out a list
of the 415 species there recorded &
then looked ~~over~~ my acquisition
& put numbers on the labels,
checked off my list & arranged them
in 8 or 10 genus holders numbered
on the corners - But a consid-
erable number not in D.C. ap-
peared. These I must intercolate
if possible or they will be of no
use - But how I am to do it?

I have not the slightest idea.

It may be that Klotzsch who appears
the author of most my troubles has
affixed Condollean numbers to
his species somewhere; or there may
be somewhere an enumeration that
will help me. I little suspected
the narrow range of the package, for
I was dreaming of *Melionthus* *Prote-*
ced & I know not what all &
here come species to make *Erica*
exceed *Aster* or possibly even *Carex*!
Well it is a beautiful collec-
tion & will help deplete my dupli-
cates finely and there are enough
that would be glad to get them from
me were I sick of my bargain. If
you can possibly fix nos to any of
these or help in arranging them you
will greatly add to their value.
I hope to see the others in due time.
I am driving hard at my herbar-
ium at present.

Please remember me to Mrs Gray
& Dr Perrey's daughters
Yours J. H. Holton.

Erica in Herb. 17 Holton not
found in Candolle

E. asperma Kl

absinthioides L

galeiflora Benth

memorata Kl

tholictroides Kl

mundicoma Kl

soluta Kl

erithina Spr

hemisphaerica Kl

inermis Kl

severa Kl

plumea Kl

flava Andr

leionia Kl

erectiuscula Wende

juliana Kl

patraea Kl

fulgens Kl

patersonia ^{Sonch} Andr

myrsantha Benth

ornata Kl

porrigens Barth
flexuosa Andr
violacea Kl
densiflora Barth

Westphaliana

Mediterranea

Princeton 8 Nov 1852

Dear Dr. Torrey To day, for the first
time since Saturday's lecture I have
my working dress on. The ague
made me its third unwelcome visit
on Friday night. It did not damage
my lecture ^{of} Saturday but its par-
oxysm of Sunday came earlier than
I expected & was very hard. I went
to church soon after it began &
before I knew the fact; & after church
I went to Dr Maclean's. At 5 P.M. I heard
the clock strike & readily found where
I was but was obliged to wait till
the Dr. came in before I could tell whether
it was A.M. or P.M. Next morning I
could not instantly tell on which
side of the Alleghenies I was! Indeed
my mind was a little numb till
Tuesday morning. The ague is now
broken & Dr S. says he will keep
it off. But I have lost a great deal
of precious time that I needed
very much. I have letters to

lectures to arrange, dust to eject
from the laboratory, unlabeled
bottles to examine & a thousand
things to do. I shall only answer
Dr Gray's letter to-day. I send it to
you with my answer, that you may
read both. You see the way threatens
me with a Holtonia barbata! The
ire of "The Duke" has not cured him
yet. Mr Brownne is out of his reach:
unless indeed he should plead that
the specific "Americana" would
save the great Anglican from the
joke of a Bobbraunnea. I meant
to have signalized my composites
without taking them from the case.
I have but three large bundles. The
Orchids in the first (west) vertical
row, the composites near the mid-
dle & the Leguminosae near the east.
I have just got news of our election
& it gives me little satisfaction. Those
K K's delight in astonishing us!

I get along very nicely with my
servant. I shall have no difficulty
there I trust. Dr M is very kind. He
asked me to tea last night & to
dinner to day. I declined of course.
We have a new Prof. of Mental Philos.
Dr Atwater from Ct, a strong
O.S. man I should judge. I took
tea there last night, & spent the evening
as I was not well enough to work. I
do not suppose Mr Catell is aware
that I am in the place. I cannot
call there till next week.

I wish you had spoken to me
sooner about flasks. Yesterday
I found one in a dirt box & the
dirtiest thing in it. Its contents
insoluble in H appear to be resin-
ous. As soon as my letter is off I will
try alcohol on a particle of it. The
cleaning has made no perceptible
advances since Thursday P.M. I am
making an improvement on your
crusade against draws. I think

of abolishing cork boxes. What
right has one cost to be atop of
another? I cannot find Sillimons
journal here & I want to read
the three past years. And I should
like to see Sillimons Chemistry
published late in 1852. On the
whole I find nearly all I want here
have bought a wash bowl (for Chlorine)
& will order some more tin
plates for bell-glasses as I have
but one. I brought on a 4qt capped bell
which I should have done badly to
have omitted as a small cracked
one was all we have.

Dr Schenck is glad to hear that
you are coming out & I am much
more so. I have many questions to
ask. You did not mention Mrs Lorrays
health. Is Eliza home. Ask Maggie
if I owe her a letter. I will
write you again next vacation
i.e. the first half of the week
Yours truly L.H.

Princeton 13 Nov 1854

Dear Doctor

Is to-day is the first week-day in which I have been neither lecturing nor sick. I can assure you I have enjoyed it as a treat. Do not imagine that "I've been roaming" for till yesterday I had not gone east of Mr Van Dykes nor west of Dr Shanks but last night I pushed my discoveries as far as Second Ch. & to-day has been a genuine working day. I read over Mr Kents Catalogue, noted some things that College ought to get next year & hunted over the chemists to see if any thing was missing. I found some bismuth & also what I took for Sb but it did not behave as I expected with blow-pipe or hot HCl. also some more in a paper, powdered. Expect to make Cl. on Wednesday to use on Friday of next week. Will test said powder. If you know that is not Sb please

send me out some. I want also
a pipette (No 376 Kent 5 Ed) & have
no funnel smaller than $5\frac{3}{8}$. I
think I ought to have $4\frac{1}{8}$ & $2\frac{5}{8}$
(Nos 236 & 239) & this I believe will
put my glass on a good footing ex-
cept grill tube & one or two other
varieties that can all be dispensed
with. I sent for a small bottle
of strong Nitric Ac (eg $\frac{1}{4}$ lb of
fuming & Mr Kent sent me 1 lb
of common. Is there "wood work" to
the blow-pipe gas bags?

But about my day's work. Next I had
the carpenter in & finally found where
the water-pipe was stopped for I have
lost all this rain while he was fus-
sing about it. Then I examined ex-
amination. Papers till noon. This
PM the carpenter put bars to some
flask shelves & on the edge of shelves
for tubing, the servant washed
out three cases thoroughly & I
have been busy enough.

I enjoy myself here highly. I have no desire for running about & all my enjoyment is limited to the laboratory. I have no annoyances &, but for the want of gas, nothing to wish altered. I got my Sand-bath filled Saturday & hope to-morrow to carry my explorations into the SE corner of the room. I have been to two faculty parties, very pleasant have taken tea with Prof. Atwater when too sick to study, called on Prof. Moffat & have made sundry professional calls at Dr Skancks office, this is all my godding for a fortnight except calling at Prof. Stepen's to give Miss Henry her box. Now I think I behave quite well: don't you?

I have a suspicion that my nephew is in New York. If so & if you can get word to him please let him know that I wish to see

him on particular business.

I forget when I wrote you last but I had a hard time with the intermittent but I was nearly well last Wednesday. On the morning after election the Tribune had one of my N Granada letters in with a queer change of "cursed" for "deserved" in one place. Did you see it. I am out with the K.N.s & think they deserve their name for helping Paddy's candidates into office.

We are all looking for you next Friday. Dr S. has perhaps a more disinterested desire to see you than I who have 20 things to label & 40 other questions to ask but I assure you that I have all sorts of desires to see you. I wish much to hear from your family - particularly of Mrs Loney's health.

Yours J.F.H.

Princeton 5 July 1857

Dear Sir,

My lecture is ^{the} last of this course, ^{and} you can see of my life. It has been my last course for the lecture you heard was far worse than any other I ever have delivered in Princeton.

I am now over a class that I was thoroughly afraid of for some time and a little uneasy about to the last. I am very busy, so I had a deal of work to do to pick up the matter for my last two lectures.

I am afraid Dr. G. O. Macken will call on you on Monday before we get this for he undertakes

to bring out my drawings for
me. If he does not come on
Sunday can you make up a roll
for me? My own little roll is
in the botanical room of the
college in newspapers. You
can add to it parts of flower-
& skeletization & inflorescence.
& whatever you do not want
I'll offer that.

Will you give me some
sketch of your course and
I will try to be as heterodox
as possible. It is well for me
that I have been unable to prevent
your beginning with cells. I
should break down under
such a course but your way
is best for you.

"Dr George" thinks (I believe) of
taking a Western Book of
Chemistry. His company has
been quite pleasant to me.

If he does not see you it,
will be best to have the roll
fortified somewhat with stout
cord board & sent to Mr Van
deventer with "From Kent"
on a corner. "From Kent"
means for me.

I am sorry that Margaret (if
she was going) did not go with
Hastings. There is no fun in
a steamer. Your family have
left early for the country. It
seems a pity that one house
will not accommodate you
all the year.

As I expect to write
you again this evening or
Monday morning I will now
say no more -

Yours
J. H. Brown

Don't you want your letters sent
to the Library Office?

Princ on 4 June 1895

Dear Doctor

You have had a long
respite from my pen as I
have been able to construct
such things as needed for
my lectures & further I have
been expecting to see you every
day here. I am in full blast
with my botany into which
more than half the class enter
with considerable interest
but a large minority vote
it quite a bore. I have now
heaped up on my table 35-
written analyses of 20 different
flowers. A volunteer class
are to meet three mornings a
week to dissect plants before
breakfast. I believe more than

half the class have handed in
their names for it. I am
now in fruit & hope to finish
my next lecture with Phyllotaxy.
I then have 3 lectures left for
the 'Crescencia cryptos' issues
& leaves & Theory of metamorpho-
sis - For these I want drawings.
I hope you will hire some
little Knox to take them down
to Mr ^{Wm} Burger's, druggist in
Cortlandt St. as soon as conve-
nient. I am now nearly through
all I have here & would send
them if could. I learn that you
are likely to use them but
I include you do not lecture
this summer. My health has
been quite poor for a week
& it is hard work to keep my class
from suffering for it. I have
been in bed but a very little
& hope to keep on after a sort.

They said it was very pole before I
got through my last lecture. I
would feel much easier were
I certain of drawings for the
rest of my course.

I am writing Dr Henry to do so
as he did not answer my other
letter, & I must soon know
what to do with my plants.

I hope you will come out &
if you are here at the time
I will read sick if you will
only deliver the metamorpho-
sis lecture. I write to the
Library Office without permission
but it seems as if you must
get it sooner.

I would like to hear from
the family, I suppose they are
all at Inceadens.

I saw Dr Schank today
they are all well. I made a

visit with Dr Macdonald on
your friends in which they
send love & say that Dr Short
will be on this summer. Ought
he not to take a set of my
plants?

I hope if you are not com-
out the drawings will be at
Mr Burgers as early as Wednes-
day though they may not be
colled for till Thursday at 12 M.
Please direct to Mr Vandeventer.

We are sadly off for ext books
& use a mixture of Darby Gray
& Wood. & Hope & family & Mrs
Brown & family sail for Havre &
Switzerland on the 30th Both
Dr Hopes & Dr Swalers family are
persecuted with the intermit-
tent as bad as I am.

Yours truly

L. F. Holton.

Kurley's Relief - Canada
Sec. adn. and Aug.

Meredith Village N. H. Dec 1881

Dear Dr. Ferry

I have been expecting to write to Eliza but have had a great pressure of letter writing this being the 28th. I believe since I came here I have written letters that I need to write necessary deferred. But this matter of the lost sett of planks begins really to alarm me.

They could not have been taken but by my direction for just those bundles were taken. I supposed it was all right or I would have looked the matter out. I still think that Mr. Schultz was the one, if you have not yet spoken to him.

Will you please ask him to take the accompanying note to the Lumber Co. and also

See Mrs Knox & see if any
light can be thrown on the
matter.

I am working hard & with
as much success as could be
expected. I make about one
pastoral visit each night or
if they be distant each day
& by the close of next week, if
I am well, I hope there will be
few of the members of the church
whom I have not seen at
their houses. I exchange next
sabbath & have therefore followed
my book rather farther this
week than usual.

The fountain pen works
well & is very convenient
as it endures no correction
& is always ready. In con-
necting it is as valuable
as in continuous writing.
It is a hard three days work
to empty it.

My people are very attentive
to me very kind. I wish no-
more of them than an in-
creased interest in eternal
things. Even ~~the~~ now there is
a little more than usual.
Should it increase, ^{so will} the load
on my shoulders; but God
will never require of me more
than I can do. I am therefore
quite anxious to see my
duties become even more ar-
duous. My health is as good
as I can expect with so
much confinement. I have
been on the ice six times
but less than an hour at
the longest. I have a pleas-
ant room but I am not
entirely settled in it yet
as it could not be prepared
for me at once.

The one great deficiency

that I feel "is a wait of
faith & more of a de-
votion - spirit. That I
had Mrs Torrey's mantle
on me. Such a spirit is
I fear rare in this day
I must close

Remember me at all
occasions & write me if you
can - Yours truly
J. F. Holton.

111 V 22 Feb. 1886

Dear Dr Torrey I believe that
at this instant two of your letters
one of Eloras & one of Hastings are
unanswered! I make amends for all
in this for my long letter to Dodge that
you must read as an answer to all
yours. I do not often tell so much
about myself & my situation I write
a great number of letters or rather
notes but most of them very brief.

I wish you had time to look
round at Harper's you can do that
in office hours & see Dr Guernsey
who has my affairs in hand. I
wish to show you my Chief downre
a table of Altitudes, temperatures & pro-
ductions. I supposed that the temper-
ature varied so irregularly with the
altitudes that the ~~Demo~~ temperature
scale could not have equal parts.

You will comprehend my surprise
& pleasure when you see the results.
You may find some Botanical terms

to correct. My views will
be strengthened by adding Leguen-
dama at ~~5092~~⁷⁸⁰⁰ feet & 54° and alpen-
ing Mesa to 72½° Fahr.

By reading this letter to Dr
unemedy you will see something
how we are getting on. But
if you cannot see him but can
send round or borrow (and return)
the table I should like it! I am
very jealous of your time but
not so much so of Uncle Sam's.

I think (but do not know) that
Dr Gray has traced at last the mis-
sing Gramadan plants from Kinsley
to the Alexander. Among my slow work
is not it. Had it only gone through
Adams', Stratton, who was watching
for it would have notified Gray.

I hope I shall get the catalogue
of them in season for my book.

The indexing of my book is slow
pendous. It takes a long time to
index a chapter. But in the

and any man that is looking for
any thing can find it readily if
there whatever be the nature
of the clue he has to it.

I intend to preach on Gen-
perance next Sat. morn & in the
P.M. on Salvation by grace not
works. Lecture in evening on Anti-
deluvian History.

I am trying to make my
sermons on Progen do me some
good. How I will rejoice when
I get out of this book! get this
old man off my shoulders.

My fountain pen is a great
improvement - on the best
inkstand in the world. If you
use one you must not lay it
down often when it is half
empty. The hand expends the
air within & drives out more
ink than you want. That is
the only inconvenience -

have scarce laid down
my pen now for three hours
When next I want it for little
jobs more than ²⁰ seconds each
I shall fill it

I really must write
no more - If you cannot
conveniently answer - (this
ask Eliza to for Herbt) though
I love her one & to him much
love

Yours truly

J F Holton.

I have broken open the letter so
so that a man has called to announce
a second happy death in a very
wicked family - first a son went to glory
a month ago after six months home
and four of serious sickness. The
aged mother gave herself to God on
last Sabbath - was taken sick on
Monday & will be buried next Sab-
bath. The old gentleman who once kept
an amateur grocery & spent much of
his property in defending it from the low will
be called upon - & all very happy

St. Louis - 17-12 Sept 1856

My dear friend

It is long indeed since I received your tardy answer to my letter this spring but I am almost literally answering it at my earliest leisure. I have just enclosed to the Hoppers the last of my book except Preface. I expected proof sheets enough to keep me busy here & have none so that for 26 hours to come I have no K Granoda to do. I am here nominally on a visit to a cousin, really to see Pres Lohmeyer who has looked at me and gone home. Their Corporation meet to vote about me next Tuesday. They will concede me a year ~~minus~~ a term for absence in K. Granoda at some future time. I ask a year + a vacation say from Nov 1855 to March 1860. I have not yet told our folks what is in the wind - have refused to take the matter seriously into consideration till elected. The only other man they had in view was lacking in morals so that they

now score an alternative. The doc-
umentary being but \$500 the Rogerses &
Gibbses let the matter alone. As it
is only by the consent of those worthy folk
that I can have a professorship at all
I suppose I ought to be thankful. Now
if I go there I mean to stick there and
I shall be thankful that it is not Princeton.
I am hesitating whether to send this
to day as I am not in a vein for cor-
respondence but it is so long since
any of you have heard from me. I
am really stiff with the news.

Tell your father that this I think he
owes me a letter that shall not deter
me from writing again next week as
soon as I have anything to write.

But I suspect now I am mistaken
and owe him well I never stop for
that. I need have any thing to write
I come to write in. I wonder if
Maggie is at home & how she is
If you are not hurried do write me
soon & tell me how you are all

getting on.

I believe I will sit
here & not count this as a letter.
We look on N York city here as
a poor benighted place. The only spot
in all the free states that will not give
a Majority for Fremont - well we
don't need it and when he gets in
there we will feel for custom house
abolish Office with honest chaps from
the Country & move the churches
joke of the Assing Office as it is.

is Dr. in the stud. coll. this winter?
I had not work to make myself send Tom
a student this winter I feel sure on that
he D. ^{wholly} refused your father for me. if
he had not still shown an interest in the
cause I don't know as I would have put in
a word - I am working in the
Office of the famous score Manufacture
we are everywhere

Yours truly

W. H. Chittenden

Mercer's Villa. N^o 19 Sept 1880

Dear Dr. Linn

I wrote to you a
day or two since expecting them
to write to me today. I have been
checked to the ^{use} of the ^{use}.
I wish to leave on here for a
day and the moment the question will be
settled. I shall be settled that I
do not hope a permanent home here
that alone ought almost to settle the
question. Had I been destined to it
Grenada it seems that a years dil-
igent search did have found me one
to go with me but I have made a mistake
by not pressing hence I dismiss that ques-
tion except that it is understood that
I was in some way or the other 8 months
& I mean that it shall be 16 in total
time. Even in 8 I could accomplish
more than in the 24 I was gone before.
Now as to the Diet. I must be very
one thing at least. We have a law
here that if a man is found drunk

in the highway he shall be arrested
& not release till he shall have sworn
out a warrant against the man that
furnished him the liquor. I boored with
the justice who is perhaps the main man
in the Ch. though C, a democrat and an
ex-minister. I saw a man drunk in
the streets a worthless vagabond & I
called in to our house our two deacons
& the most zealous temperance man in my
congregation. I declined acting and
told them that if the law was not enforced
by them I must either enforce it or
leave the protection against either of
these things, told me that the majority
of the people were opposed to the law and
but further gave me to hope that the man
would be arrested next day in compliance
of another person. ~~However~~ He is not
one several times & see of drunken-
ness have since occurred. I have
seen none of these except a respect-
able member of my congregation

quietly drunk in his own house &
not liable to arrest. This thing hangs
over me. I am to stop it is in the
guilt belief that I can run about a life
parent state of things. I am not warranted
to take it from any thing I have done.

I have no doubt I can stay here &
states supper & might stay longer years.
I don't know but I hope that we have a
unanimous call to stay here. Against
this last I know of no valid objection since
the weakness of the body, the temperance
matter & the delicate call. The differ-
ence of salary \$100 & \$150 need not
be taken into the account.

It will grieve me much to leave
the work which has received & benefits
my first labors in the ministry. But
I must have a home I need to have
me. I think I am better equipped to
scientific than pastoral labors. I look
to your letter to aid me much in
the solution of this question of duty.

have been without from the Han-
pers on nearly a week. I do not
doubt but that the little appearance
will be in time home this month is out.
I intend to write my preface next week.
I have not seen Dr. Gray's new Manual
yet. I have in view to get it & if I know
it a good chance of getting it from
N. Y. I will do so for it.

Give my best affectionate regards to Mary
if she is home. If I go to N. Y.
I think I shall spend part of the
time there, & then have to I should
give up my home part on all the
winter & see Boston & N. Y. before
resuming my duties in the Spring.
I can hardly hope to see you sooner.
Yours truly J. F. Holton.

Byron. Dearborn. Med. Student. Oct. 10th

August 10 1896

My dear Mr. Dearborn

will be pleased to have you
a member of our choir an
excellent young man who now
resides himself in N.Y. He for the
first time an entire stranger
He is a medical student and
I think your advice in his
service to him in making
first arrangements.

I hope to hear from you in
few weeks time & have no more
to say than that I hope you
will be in our midst at the
next Monday as on Tuesday 14th
I am to see a definite number
of the college. The service will
be a mass of about 12-15
in person with a full up

intended to me with
the most precious & valuable
return to me

and

J. H. Hill

Rec'd. March 14 — and 24

Middlebury Vt 12 March 1857

Dear Doctor Fory

I was glad to
get your letter ^{night} before last.
I am glad to see that you rise early;
I do sometimes. This morning for in-
stance day was streaking the
east as I was streaking it down
the hill from the hotel, the grade
being too steep & the track too slip-
pery to allow me to put on the
breaks. It is nipping cold & I wish
I had some of the nice warm things
that I laid in for this emergency
& which are still in N.Y. waiting the
R.R. & Leroy. You two are suffering
in that; for in that box of miscellany
lies somewhere my Catalogue of
Granodan plants. In 24 hours after
its arrival you shall have the
list of Bignoniates and in due

season a better list of the whole
than any student here can make
you. Yesterday I planned out
my herbarium case or "shelves" as
they go for in the bill. The wall they
cover is 8 ft 11 high & 7 ft 1 wide:
the case is to be made of three stores
that can be taken apart & put
out through a window. Ultimately
it will have 18 doors the bottom is 5
inches from floor, & the ^{bottom of the} top 68 inches
6 from ceiling. The carpenters have
left me & have but little more to
do beside this case. My little study
that they have taken off the Herbarium
room & which is in a year or two to
be added to the laboratory is 19 ft $4\frac{3}{4}$
by 8 ft 4 with the window in the end &
an immovable table under it of
the same height as the windowsill.

I think I shall have the floor covered
with oil cloth. The match-maker
is anxious to hear from you.

Your next letter I hope will an-
nounce that the bible is secured.
I wish we had \$100 to spend in
elegancies or rather decencies.
My colleagues seem to look with appro-
bation on my changes: they are really
great improvements. My pump is
engaged - a donation from the patent-
holder - a first class lift & force pump.
It has no piston, a disk of india rubber
is the only movable thing about it except
handle & valves. Queen that they have
never yet had a pump! My cistern
& sink are ready for the plumber. He
waits the first thaw. Thermometer $-9\frac{1}{2}$
this morning. I expect soon to go
to Pres. Laborees to board. I wish

I have lost 8 bottles lime water & a gallon
of ag. dist. nothing more by freezing! My P. did
not break. Wrote Eliza yesterday at Nash in

you knew Mrs. L. She is very differ-
ent from him: she is very elegant
a great reader & a warm unaffected
friend. I have lost more than half of
my best female friends. She alone
has been added to the list since death
made the first breach in it. Were
only one such to fill the great void
of my life!

I am on galvanism. I
fear I must amputate. I have six
Daniels cups and nothing else of a
battery that can be worked. Three 50
troughs, a voltaic pile, electromagnet
capable of sustaining a ton & sundry
electro-magnetic toys, engines &c all well
made. But I must write to N. to
my Christian Democrat P. M. & congrat-
ulate him on the defeat of his party.
Rum & Democracy have a disastrous alliance.

Love to all. Hope M. will write soon
Yours truly J. Bolton

College fallen than ever since Bates left! I did not
succeed in ruining it last year.

And

Middlebury VT 21 Sept 1857

Dear Dr Gorrey I am back in my old
quarters & trying to see if the smoke
has cleared away after the explosion of
12 Mlt. I have as yet got very little
light indeed, only that a successor was
appointed (all the work of a fortnight of
that day!) who unhesitatingly declined.
Were the Corporation deceived? It is a
little curious that Miss Gordon, not
knowing what you said remarked to
me a little while ago "You ought never
to have boarded at the Presidents. Prof
Bittinger an excellent professor
was sent away for no other reason than
that he was disagreeable to Mrs L. with
whom he boarded." But from her fur-
ther account, his offence was rank
compared with mine; for he publicly

condemned low-necked dresses while Mrs L. wore them. I have never assaulted her I am sure, but I have shown myself rather uncoaxable in matters where she had no right to interfere. With Dr L. I think my worst offence has been my disgust (never openly expressed) to certain defects in discipline, particularly with respect to the devotional exercises which have been scandalous. The only complaint he has further made is to the hardness of the questions I sometimes ask in recitations - questions which cannot be answered in the words of the book. "If a hydrocarbon meets with an insufficient supply of oxygen, which element will seize on it?" Now there is no answer to this in the lesson, why then

should I ask it? He tells me the scholars do not consider it fair. I find that scholars frequently ~~recite~~ without questions being asked them just as they do in a geometry class. Moreover the President does not approve of lectures.

As you may wish to know the particulars of the Chemistry ^{examination}, I subjoin a list of the questions asked

1 Give the symbol for lampblack. 2 Aqua-fertis 3 Harts horn 4 Elephant gas 5 Choke-damp 6 "Chloride of lime" 7 Ratsbane 8 Realgar 9 Kings yellow 10 Red precipitate 11 Calomel 12 Vermillion 13 Copper pyrites 14 Massicot 15 Bone phosphate 16 Gypsum 17 Copperas 18 Cubic nitre 19 Clay iron ore 20 Glass (These were drawn by lot from all the inorganic substances in Gross Chemistry that had common names) 21 Give the equivalent number & volume for Water 22 Sulphur 23 Carbonic Acid 24 Ammonia 25 H₂

34-38 a series so are 41-43 & 44-46 & 47-50.

• Iochloric Acid 26 Hypochlorous Ac. 27 Calculate the specific gravity of Carbonic Ac 28 Hy-
drochloric Ac. 29 Give the formula for ob-
taining Iron 30 Chlorine 31 Nitrous oxide
32 Potassium 33 Lead 34 Sulphate of Alu-
mina 35 Alum 36 Alumina 37 Chloride of
Aluminium 38 Aluminium 39 Hydrogen
40 Hydrosulphuric Ac. Complete the follow-
ing formulas 41 $HgS + Ca =$ 42 $Hg + 2S =$
43 $HgCl + Hg =$ 44 $FeCr + 2KN =$ 45 $2KCr + S =$
46 $KCr^2 + S =$ 47 $NaCl + H^2S =$ 48 $2NaS + 3CaC + 9C =$
49 $NaC + Ca$ 50 $Na + C$

My present work is grading examinees,
labeling a few things for cabinet, gluing
& poisoning granodan plants, reading & writing
letters including some book notices too
long deferred. I need immediately that
list of N Granadan plants. Have you
seen the \$5 label press? Eliza will
appraise you of my movements after leaving
Quebec. My shut is full so Adieu
Yours J. F. Holton.

Middletown 19 Oct 1857

Dear Doctor The most important en-
quiries in your last I had supposed
Eliza's letter would answer particularly
the little significance of the ^{fact} ~~fact~~ that
you thought might be interpreted
into an announcement of my re-
turnment. No such thing has occur-
red, nor would be probable for a year
& I think not even. I am not looking
for it. I have not settled with the
college yet: I mean to let that pass
& then call on certain parties for ex-
planations. I have one or two friends
here that have enquired but no clue
to the mystery occurs yet.

Prof Hadley of Castleton was
introduced to me by Prof. Parker
as about to open a course of lectures &
on the anniversary of my acceptance.
I showed him all my M.D. notes &
place of deposit & left him in possession.
That was Thursday & I have not
heard from him since. ^{He lectures daily, I suppose} The night
you might get some clue from Prof.
^{Parker} at Middletown. He knows more about

The affairs of College Man or the
Professor.

The examination questions were
well answered & I only sent them to
you that you might judge how severe
- how lax the examination was: a rebut-
tal to any plea that I had not taught
them any thing.

I am steadily gluing plants &
doing them very thoroughly but slowly
as it is a trade that I am learning. Most
of them are glued at several succes-
sive operations. I use a knife as a spat-
ula to introduce glue under a place
that does not stick the first time &
in a few cases by a flout, when very
flexible & large, on the paper dry &
put all the glue under. I leave the
right hand lower corner for a future
label. Have you seen lower \$5 printing
press! The smallest size occupies a space
of $\frac{1}{2}$ inches by 8 & prints a sheet of 5 inches
by 6! I do not know how fast or how
well it works.

Can any thing be done to extract from
- number a report on those matches.
Please give him a good scolding from
me. I have written him once on the

matter & got no answer, perhaps
he would heed a reprimand from you.

Have you seen Drapers Physiology?
I am about noticing it. I am afraid
his desire of novelty has led him be-
yond common sense. I understand him to de-
ny not only the existence of species
but of individuals also. See page 480
"Plants are operations not individuals."
"Analogy between a plant & a flame" see also
on p. 106 "The classification of Nat. Hist are
fictions" There is a good deal of ingenuity
displayed in this matter & I thank him
for going to the very end of the affair un-
less the denial of the existence of matter
& mind would be a possible step
beyond. The work was published by the Har-
pers last fall & I fear has not met the
attention it has deserved. The attack
on Wells's year book in the N.Y. Freeman
in August was by me, but this is in
confidence. The time I am not at
my plants I spend in reading English &
German. I have a great deal of back
reading to do as I have not caught up
since my return from N.Y. I have not
made a visit on a call anywhere excepted in
this village since my return. I have

been to Cornwall twice & expect to go
from there to Port Henry next Friday. I
am getting pretty thoroughly tired of the
world & if nothing stops me shall go to
my land in Illinois next Spring. Any
call to intellectual or religious duties
would be sufficient but I do not
feel like seeking any. The question
is not whether "the world owes me a living"
but what service I owe the world. I own
myself the debtor and am willing to
pay on demand at my counter but
do not feel like running after my
creditor. How I miss Mrs Torrey!
I have got into my orchids & glued the
first of them today. I think all ^{are} ~~one~~
finished as far as ~~deliacea~~ ^{between} the rest are
done or going. I mean to form a char-
acter above par in gluing; & especially
to spare nothing that could add to the volume
of my grandmother's sett. I wish some bot-
anist would show my orchids to Lindley
after I have got them nicely glued &
all the fragments reunited. I send
you on another sheet the removed and
slacked list. Also a letter to Eliza
Regards to the rest
Ever yours J J Potter.

Middlebury 31 Dec 1857

Dear Dr Torrey

I do not know when
the dying year can leave me more
saddened than I am here alone in
Middlebury. My chief business has
since I saw you last has been wait-
ing. And what I am waiting for
comes not unless that be an adjourn-
ment of all the hopes of usefulness
that I and my friends have ever
formed of the benefit the world might
derive from my long & varied educa-
tion. The prospect now is that on or
before 18 Jan. I shall leave here for
Hills Grove Ill. There to cultivate my
own land till I can sit under my
own vine & enjoy an undisturbed ease.
I have not sought this result, but I
see no leadings of Providence to any other.

fields of duty. I cannot be idle
and I must go to carrying something.
My land needs my supervision: the place
needs my preaching. And if Providence
has other work for me He can call me
thence. If I had had in 1843 the same
views of life I now have I should have
married & settled there then.

It seems a pity to carry my herbari-
um & library out there if my stay
there were to be short.

My time has been occupied here
chiefly in gluing down my Gravenor-
sett. I am as far along as the Soliman-
ce leaves a few more besides the
Polynesia to be glued in Illinois. I
have done them I think very thoroughly
& carefully.

What a waste of human life there
is in this world! One man drops out
of life just after entering a missionary
field for which a dozen years of study

has exactly fitted him: another drops
out of sight from no visible cause,
when the world needs so many true
laborers. I no more understand the
currents that have towed me into this
eddy than I do those of the great
whirlpool of Niagara that I soon
expect to see.

It is a long time since I have
heard from any of your family
and I think each of them owes me
a letter. I hope I shall hear from
you soon.

The little village of Port Henry
Essex Co N.Y. has a Pres. Ch edifice
& has had occasional preaching only.
They determined in Aug. to secure a Ch.
& pastor the next year & after my
resignation fixed their views on me.
But it is an iron village and the
revolution led them to economize &

and defer them enterprise a year.
I visited them merely from friend-
ly feelings and after that they made
an effort to change the arrangement
for the year to come but it was
impossible to do any thing before
next August.

I have now just returned from
a four weeks' visit to my relatives
south of here the first I have made
there for a long time

Is Jane married?

Give my love to all

Yours L. F. Holton.

and Apr. 15/58 Mt Holly VT 31 March 1858

Dear Dr Loring

I fear you do not
always read my letters carefully. From
what phrase of mine you derived the news
of my marriage as a fait accompli I
cannot conjecture. Though not the first
time I have heard of it, it certainly was
the most authentic statement of the
fact: it is not so nevertheless. Could
I have had my own way I should have
left Vermont ere this but the lady is
impracticable on that point. Not before April
was the first approximation before the 15th was
the second and now before ^{the} day is finally
fixed I am quite sure that a delay of a
week longer will be found necessary.

I have not now your letter at hand to
answer: it is in my valise. Your letter
was addressed to Middlebury, a day there
some time before I received it: one from
Eliza took the same course. Most of week
before last I spent in Port Henry N.Y.
with Miss Warner at her brother's who

is physician there. Last week was
spent in packing which I did not en-
tirely complete, but as I was not willing
to spend another Sabbath either in Midd.
or Cornwall, I left a dog's work of it & came
down here where I have nephews. I preach-
ed last Sabbath in Cuttysville where the
Ch. is perhaps in as pitiable a case as any
one I ever saw in N.E. The pastor is
deeply discouraged. I staid over & we had
a prayer meeting on Monday night - nine
of us present - They have another tonight
& I meet them again tomorrow night
& on Fast Day. It may be that the Lord
will look on their low estate & help them.
(Universalism is ripe there: their pastor is
a young man of, I think, moderate talent.

I learned that Dr. Labaree is to
sail for Europe on 10th. While I was
lost in Midd. I ascertained too that
there was no present chance of getting
any money from College at the Pres.

needed all they can by handson and I
could make no satisfactory arrangement
for the future: so in advice with one of
the Prudential Committee I appeal from it
to the Trustees.

Yesterday I wrote to Dr L. It was my
first voluntary communication with him
since Commencement. I have asked him
about my disconnection with College and
first 'what disposition was made of my har-
per proposing, at a future time and un-
der circumstances not then determined, the
severance of my connection with College.'
To that communication I had received no
answer & wished to know if it had
been read to the board & if so what they
had done about the matter. If I can get
about two letters from him I think I may
then get data from others for my appeal to
the Board. I have dreaded this matter ex-
ceedingly and am glad that it did not
become my duty to carry it through while
so occupied in Cornwall. The work was
pressing then when I left. It is now in
charge of a very good man rather slow & dull

but I hope it is still going on. It has little
of excitement in it: scarcely what I should
consider the minimum of feeling necessary
to conversion in many. I therefore did not
feel at so much liberty to encourage what I
really know not how to estimate the results
of the work as I left it.

I cannot say I am happy now while my
main business is waiting. It will take us a
long time to reach our future home as we
have visiting to do in not less than nine places
between New York & Hills Grove. Miss W. has a
sister in Beloit & I a mother in Stephen's
W. Pres. Andrews of Kenyon Coll & his wife ^{are} ~~was~~
both first cousins to her. Was not Edwin Grant
there? Where is he now?

Give my respects to Eliza & Maggie, and
repair the results of your misreading of my last.
I will not try to answer Eliza's letter now,
perhaps not till after I have seen her.

Respectfully yours

D. F. Holton.

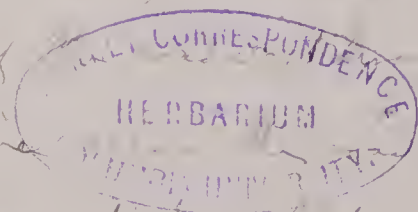
P.S. Should you favor me with another
letter please let it be in 10 or 12 days & directed
to Cornwall — I visit Westminster, Vt., my
native place, before my return.

And -

Haverhill May 21st

Dear Sir

I am very much in my condition in the 16th 22 since I
left home last. It was 24th. I was in a very high fever. The
day night I was seized with shivers which still tell me. They are un-
willing to write & I am surprised the letter with a very short. Nov. 25 was my final
being in a very low state though my home was. I was a very poor man. I was
a five, it was smallish as I wrote it. The result confirmed my me. They confirmed
the result in the 800 pages. It was only matter that if I had not
seen a new one. This result has been resolved upon 4 years since. I was
in a very low state. The place appeared to me. A paradise, we must have left. But as
my feelings remain unchanged the almost miraculous turn things have taken seems
fortuitous to me. It is, I think, more than a passing impression to justify
the statement of well-known persons that have seen it. I have seen it.
I do not at all appear what we shall do. Everything has been waiting this
event in Middlebury & Cornwall. As one man forced his way through while
twenty of my friends were in the fear of wearing his shirt. I have
myself been exceedingly impatient with them. My motion in and out all
at + leave as soon as he can. I have written to me a two lines long letter
but must leave my thing, not even that my critical religion in
was not a few more. I have been in the same. My last letter was
22nd, I thought was nearly finished. It is now a letter in the 1st. It
will not be long, it is a short one. I am sure. I must
remember me to the friends. I say that I have been at my
home. That the day will be a very bright one. I am sure. I am
I am of course to the West. I am sure. I am sure. I am sure.
Belair was where I have been waiting this issue.



Yours very truly
J. H. M.

are in the

men 1871 34 & 1

Mexican Boundary not

at v-h. Just before the

in 1871

S. Thalden Mass. 31 July 1889

Dear Dr. Gray

I suppose many of your "particular friends" do not miss you as I do from whom you took leave so perfectly French that I learned your journey at your own door.

I write hoping that Dr. Gray will know how much you are your returner while you can yet arrange for the completion of my Historical. As the 10th. came, vol. XIV, I saw how the bargain was for the whole set. Perhaps you can secure the sending of the rest; for those who came ~~some~~ reached me through you. My first vol. is defective, the last page is 736 but if I can only get the rest I would willingly copy out the missing part.

Bel. Mus. will come with stronger than I have seen here for many a long year—

In haste yours I F. Itabon

Hollin

South Malden Mass. 1870/22

Dear Dr Torrey, -

If we could not have had your visit without sacrificing one in the early summer, I am not sorry that you could not come to us. Next time please come to us first and I will go with you to Dr Gray's. I can from the depot where you arrive in Boston will take you to Scollay's building. If you forget the name of Belmont St. all the conductors know me. Our car starts at the hour.

Did you receive a letter from me enclosing one to Garrison, of the Nation proposing to furnish him an article on coinage? He never replied. The enclosed from the Boston Daily News will show you in brief the scheme.

I wish you would examine it and write me as strongly in its favor as you conscientiously can. It is not a little wonderful that on the very day that I proposed the Metric Florin in the American Association, Dr Farr was advocating in the British Association the Victoria, just ten times as large. Its ultimate fractions

would have to be thousands, a most serious inconvenience. If Garrison's proposition should carry, we doubtless would imitate it, but using the Florin for a unit. The French are dissatisfied with their unit & have a variety of projects of change. Their centimes are too small. If the British do not change the weight of their gold they will make 100 half-pence = 1 florin & 10/1 = £1. I think I could furnish Garrison with a very readable article which would reach the British readers. If not I think I will try in some way to reach Dr Farr only I know not how.

I would like to have you write me soon, as there are now three different schemes of change introduced into Congress, not less than two in the British Association and two at least proposed in France, Mine is the eighth, unless you call it identical with Garrison's as it probably is. One coin proposed is smaller than my shilling, a hundredth of the British Florin, or two-shilling piece.

Will you note that my scheme establishes an absolute ratio between the value of standard gold and any commodity sold by metric weighing? For example let x and y be the weight of gold and commodity respectively, then x/y is constant.

"million or tonneau of coal, (1,000,000 grammes)
be \$9 = fl 15; or 15 grammes of gold $\frac{9}{10}$ fine
simple division will $15 \over 1,000,000$
show that any piece of such $86,667$
gold will buy 86,667 times its weight of
coal.

We are all as well as usual now
after having a very severe time. Our little
Charlie had severe convulsions, with
his measles and whooping-cough. His pain
is too large. Mith & I saw the Ren-
dells off for Madras (father & daughter) on Sat.
I am forwarding my letter this Monday morn.

I still am hoping to go to N.Y. some
time hoping to get work. I have now
an article "Modernest Chemistry" which I
do not know what to do with. It is too long
and too costly for a newspaper. I do a
good deal for an evangelist daily. The news
started by Dr. Hawin from across the
Boston Recorder.

In haste J. F. Bottom

On and in this envelope you have the
entire issue of my "Novelty press" Mrs
Bottom sends her love - much respects
that you did not come

THE MONEY UNIT.

The Americans, English and French are all projecting changes in coinage. And there is need; for no even number of gold coins of any nation on earth will weigh an exact pound or ounce, kilogramme or any other weight. Most of them are nine-tenths fine, but the British vary from the rest in fineness. A given weight of standard gold cannot be estimated in any coin by simple calculations. To find its value in dollars, you reduce it to grains, and divide by 25 8-10. To make sovereigns of it, you must reduce it to Troy pounds, deduct a tenth and add an eleventh, and divide by 46 29-40. To find its value in francs, reduce it to grammes and divide by 10-31. To estimate in the Union crowns of Germany is easiest; take its weight in grammes, ~~reduce~~ *deduct* one tenth and divide by 10. It is reasonable to suppose that when the civilized world settles into uniformity it will be on the best system possible. Can this be ascertained without experiment? The following statements are more or less certain:

1. The best possible system of weight and measures must have three characteristics: 1, each denominator shall be equal to ten, a hundred or a thousand of the next lower; 2, each kind of weights or measures shall bear natural relations to the rest as if a cubic foot should be a peck, and a peck of water should weigh a pound; 3, that ~~there~~ *they* be the same throughout the civilized world.

II. The METRIC SYSTEM, and that alone, of all ever proposed, can fulfil these conditions.

III. The Metric system will ultimately prevail. It is authorized in the United States and Great Britain, and is the only system in three-fourths of the nations of Christendom.

IV. The Money Unit should be a hundred times the value of the least coin needed.

V. The least coin should be about half the value of a cent; the unit about a half dollar, a florin, two British shillings or three francs.

VI. A gramme of gold, ~~about~~ *about* nine-tenths fine would lack three-thousandths of being sixty cents, would exceed three francs by 1-30 part, would lack 17-1000 of an eighth of a pound sterling, will be exactly 1 1-4 Prussian thalers, Bavarian gulden exactly, and 1 1-5 Austrian florins. This coin might be called a METRIC FLORIN, and its hundredths, STIVERS. *1 2/7*

VII. As nearly all the coinage of the world is of standard gold, the bare weighing of a mixed quantity of these coins with gramme weights, gives its value in Metric Florins; and this coin becomes spontaneously the international unit. A better one could not be; no other is desirable.

VIII. The statement of a price by weight is readily reducible to a comparison between the value of the article and its weight in gold. Thus when a metric ton of coal (a million grammes) are worth twenty Metric Florins, standard gold is worth fifty thousand times its weight in coal. A fact stated in this form is equally intelligible in all languages, all lands, and all ages.

These considerations seem to us to lack little of being a demonstration that the Metric Florin is the best possible monetary unit, and that the adoption of any other would be merely temporary. The change can be effected whenever the stivers shall have displaced the cents; and 60-cent, three-dollar and other bills shall have replaced our present bank-notes.

The coinage of silver could be resumed immediately, without waiting for gold to come to par, were the silver coins of 1870 made to contain but four-fifths of the silver fixed for future years. There can never, we hope, be so good a time to change, for the only coins to be recalled are the one, two and five cents. The three-cent piece—five stivers—is an exact twentieth of the florin. But the time is soon to come when the channels of commerce must be filled with a metallic currency. Let these questions be rightly settled while our mints are yet dormant.

Miscellaneous.

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